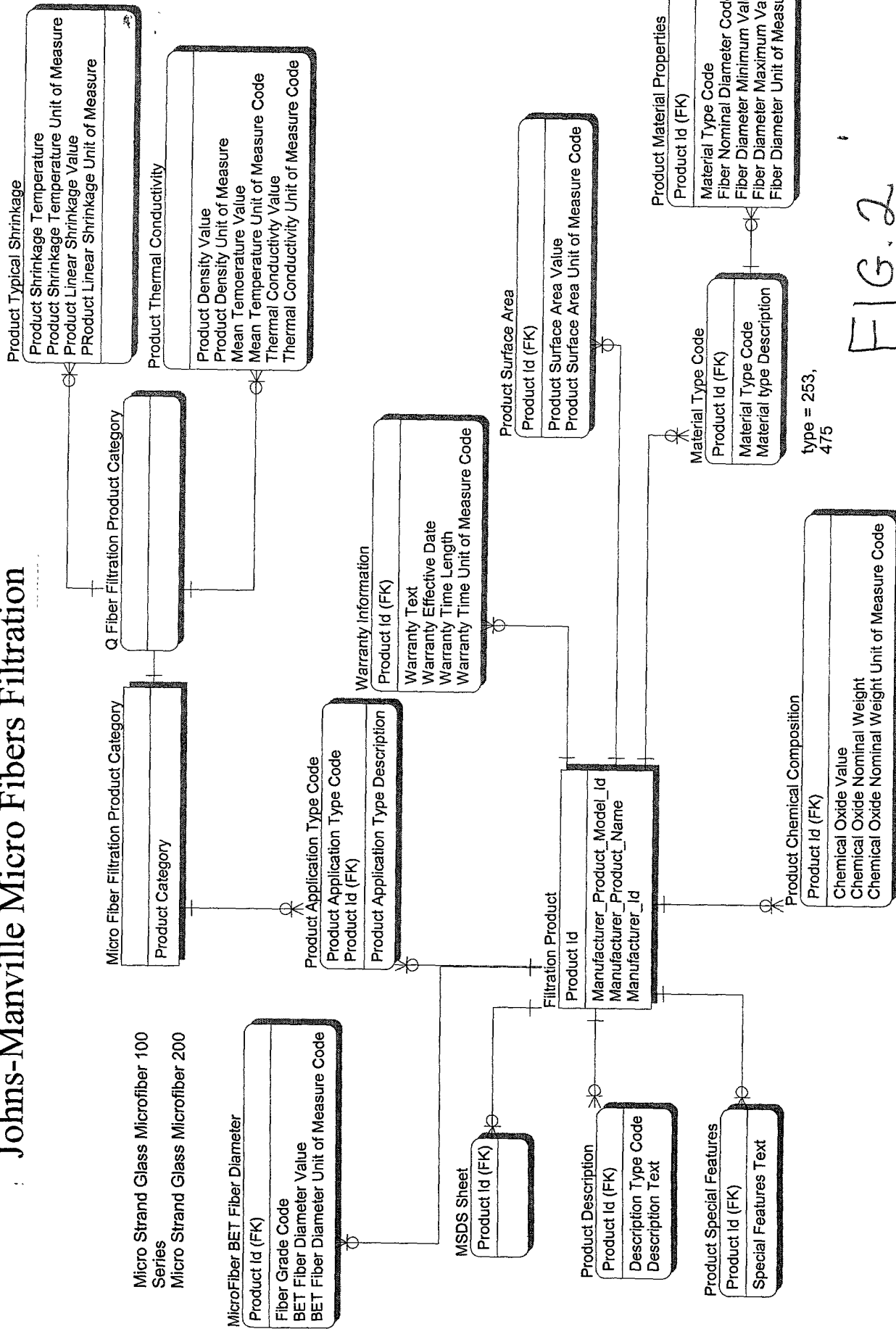


<u>DataBuilt ID</u>	<u>Filter Type</u>	<u>Product Name</u>	<u>Series</u>	<u>Description</u>	<u>Material</u>	<u>Manufacturer</u>	<u>Internet Address</u>	<u>Telephone #</u>
Microfiber Filtration Products						Johns Manville	http://www.jm.com	1.800.654.3103
(UCIDs not shown)	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 100 Series	100 Series	A fine diameter borosilicate (Type 475) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 200 Series	200 Series	A fine diameter borosilicate (Type 253) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 200 Series	200 Series	A fine diameter borosilicate (Type 253) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103
	Liquid	Micro Strand Glass Microfiber 200 Series	200 Series	A fine diameter borosilicate (Type 253) glass microfiber in bulk form which contains no binders or sizings	Non-continuous glass filaments - glass microfibers	Johns Manville	http://www.jm.com	1.800.654.3103

FIG. 1

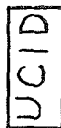
FOOT " 95302007

# Johns-Manville Micro Fibers Filtration



"File: F:\XML-firstcut\johns.manville.filtration.rev1.00.00.xml 11/30/01, 10:10:43PM

UCID



1 <product id="" tag\_id="">  
2 <description tag\_id="">  
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4 <product\_id value="" tag\_id="">  
5 <product\_name tag\_id="">  
6 </product\_name>  
7 <category id="" tag\_id="">  
8 <subcategory id="" tag\_id="">  
9 <description\_type value="" tag\_id="">  
10 <description\_text tag\_id="">  
11 </description\_text>  
12 </description\_type>  
13 </description>  
14 <uses tag\_id="">  
15 <usage\_description tag\_id="">  
16 </usage\_description>  
17 <chemical\_composition tag\_id="">  
18 <chemical\_oxide\_value tag\_id="">  
19 <chemical\_oxide\_nominal\_weight tag\_id="">  
20 <chemical\_oxide\_nominal\_weight\_measurement\_unit tag\_id="">  
21 <chemical\_oxide\_nominal\_weight\_measurement\_unit>  
22 <special\_features tag\_id="">  
23 <special\_features\_data tag\_id="">  
24 </special\_features\_data>  
25 <warranty\_info tag\_id="">  
26 <warranty\_text tag\_id="">  
27 <effective\_date value="" tag\_id="">  
28 <duration value="" tag\_id="">  
29 </duration>  
30 <warranty\_info>  
31 <surface\_area value="" tag\_id="">  
32 </surface\_area>  
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35 <material\_description tag\_id="">  
36 <material\_properties tag\_id="">  
37 <grade value="" tag\_id="">  
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40 </nominal\_diameter\_type>  
41 <diameter\_min\_val value="" tag\_id="">  
42 </diameter\_min\_val>  
43 <diameter\_max\_val value="" tag\_id="">  
44 </diameter\_max\_val>  
45 <diameter\_measurement\_unit tag\_id="">  
46 </diameter\_measurement\_unit>  
47 <material\_properties>  
48 <shrinkage tag\_id="">  
49 <shrinkage\_temp value="" tag\_id="">  
50 </shrinkage\_temp>  
51 <shrinkage\_measurement\_unit tag\_id="">  
52 </shrinkage\_measurement\_unit>  
53 <linear\_shrinkage value="" tag\_id="">  
54 </linear\_shrinkage>  
55 <linear\_shrinkage\_measurement\_unit tag\_id="">  
56 </linear\_shrinkage\_measurement\_unit>  
57 <shrinkage>  
58 <thermal tag\_id="">  
59 <product\_density value="" tag\_id="">  
60 </product\_density>  
61 <product\_density\_measurement\_unit tag\_id="">  
62 </product\_density\_measurement\_unit>  
63 <mean\_temperature value="" tag\_id="">  
64 </mean\_temperature>  
65 <mean\_temperature\_measurement\_unit tag\_id="">  
66 </mean\_temperature\_measurement\_unit>  
67 <thermal\_conductivity value="" tag\_id="">  
68 </thermal\_conductivity>  
69 <thermal\_conductivity\_measurement\_unit tag\_id="">  
70 </thermal\_conductivity\_measurement\_unit>  
71 <thermal>  
72 </thermal>  
73 <specifications tag\_id="">  
74 </specifications>  
75 </product>

FIG. 3A

File: F:\XML-first\johns.manville.filtration.rev1.00.00.dtd 11/30/01, 10:11:49PM

1 <ELEMENT category EMPTY >  
2 <ATTLIST category id CDATA #REQUIRED >  
3 <IATTLIST category tag\_id CDATA #REQUIRED >  
4  
5 <ELEMENT chemical\_composition ( chemical\_oxide\_value, chemical\_oxide\_nominal\_weight, chemical\_oxide\_nominal\_weight\_measurement\_unit ) >  
6 <ATTLIST chemical\_composition tag\_id CDATA #REQUIRED >  
7  
8 <ELEMENT chemical\_oxide\_nominal\_weight EMPTY >  
9 <ATTLIST chemical\_oxide\_nominal\_weight tag\_id CDATA #REQUIRED >  
10  
11 <ELEMENT chemical\_oxide\_nominal\_weight\_measurement\_unit EMPTY >  
12 <ATTLIST chemical\_oxide\_nominal\_weight\_measurement\_unit tag\_id CDATA #REQUIRED >  
13  
14 <ELEMENT chemical\_oxide\_value EMPTY >  
15 <ATTLIST chemical\_oxide\_value tag\_id CDATA #REQUIRED >  
16  
17 <ELEMENT description ( manufacturer, category, subcategory, description\_type ) >  
18 <ATTLIST description tag\_id CDATA #REQUIRED >  
19  
20 <ELEMENT description\_text EMPTY >  
21 <ATTLIST description\_text tag\_id CDATA #REQUIRED >  
22  
23 <ELEMENT description\_type ( description\_text ) >  
24 <ATTLIST description\_type tag\_id CDATA #REQUIRED >  
25 <IATTLIST description\_type value CDATA #REQUIRED >  
26  
27 <ELEMENT diameter\_max\_val EMPTY >  
28 <ATTLIST diameter\_max\_val tag\_id CDATA #REQUIRED >  
29 <IATTLIST diameter\_max\_val value CDATA #REQUIRED >  
30  
31 <ELEMENT diameter\_measurement\_unit EMPTY >  
32 <ATTLIST diameter\_measurement\_unit tag\_id CDATA #REQUIRED >  
33  
34 <ELEMENT diameter\_min\_val EMPTY >  
35 <ATTLIST diameter\_min\_val tag\_id CDATA #REQUIRED >  
36 <IATTLIST diameter\_min\_val value CDATA #REQUIRED >  
37  
38 <ELEMENT duration EMPTY >  
39 <IATTLIST duration measure CDATA #REQUIRED >  
40 <ATTLIST duration tag\_id CDATA #REQUIRED >  
41 <IATTLIST duration value CDATA #REQUIRED >  
42  
43 <ELEMENT effective\_date EMPTY >  
44 <ATTLIST effective\_date tag\_id CDATA #REQUIRED >  
45 <IATTLIST effective\_date value CDATA #REQUIRED >  
46  
47 <ELEMENT grade EMPTY >  
48 <ATTLIST grade tag\_id CDATA #REQUIRED >  
49 <ELEMENT category EMPTY >  
50 <IATTLIST category id CDATA #REQUIRED >  
51 <ATTLIST category tag\_id CDATA #REQUIRED >  
52  
53 <ELEMENT chemical\_composition ( chemical\_oxide\_value, chemical\_oxide\_nominal\_weight, chemical\_oxide\_nominal\_weight\_measurement\_unit ) >  
54 <ATTLIST chemical\_composition tag\_id CDATA #REQUIRED >  
55  
56 <ELEMENT chemical\_oxide\_nominal\_weight EMPTY >

FIG. 3B

File: F:\XML-first\johns.manville.filtration.rev1.00.00.dtd 11/30/01, 10:11:49PM

SECRET

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57 <ATTLIST chemical_oxide_nominal_weight_tag_id CDATA #REQUIRED >
58
59 <ELEMENT chemical_oxide_nominal_weight_measurement_unit EMPTY >
60 <ATTLIST chemical_oxide_nominal_weight_measurement_unit tag_id CDATA #REQUIRED >
61
62 <ELEMENT chemical_oxide_value EMPTY >
63 <ATTLIST chemical_oxide_value tag_id CDATA #REQUIRED >
64
65 <ELEMENT description ( manufacturer, category, subcategory, description_type ) >
66 <ATTLIST description tag_id CDATA #REQUIRED >
67
68 <ELEMENT description_text EMPTY >
69 <ATTLIST description_text tag_id CDATA #REQUIRED >
70
71 <ELEMENT description_type ( description_text ) >
72 <ATTLIST description_type tag_id CDATA #REQUIRED >
73 <ATTLIST description_type value CDATA #REQUIRED >
74
75 <ELEMENT diameter_max_val EMPTY >
76 <ATTLIST diameter_max_val tag_id CDATA #REQUIRED >
77 <ATTLIST diameter_max_val value CDATA #REQUIRED >
78
79 <ELEMENT diameter_measurement_unit EMPTY >
80 <ATTLIST diameter_measurement_unit tag_id CDATA #REQUIRED >
81
82 <ELEMENT diameter_min_val EMPTY >
83 <ATTLIST diameter_min_val tag_id CDATA #REQUIRED >
84 <ATTLIST diameter_min_val value CDATA #REQUIRED >
85
86 <ELEMENT duration EMPTY >
87 <ATTLIST duration measure CDATA #REQUIRED >
88 <ATTLIST duration tag_id CDATA #REQUIRED >
89 <ATTLIST duration value CDATA #REQUIRED >
90
91 <ELEMENT effective_date EMPTY >
92 <ATTLIST effective_date tag_id CDATA #REQUIRED >
93 <ATTLIST effective_date value CDATA #REQUIRED >
94
95 <ELEMENT grade EMPTY >
96 <ATTLIST grade tag_id CDATA #REQUIRED >
97 <ATTLIST grade value CDATA #REQUIRED >
98
99 <ELEMENT linear_shrinkage EMPTY >
100 <ATTLIST linear_shrinkage tag_id CDATA #REQUIRED >
101 <ATTLIST linear_shrinkage value CDATA #REQUIRED >
102
103 <ELEMENT linear_shrinkage_measurement_unit EMPTY >
104 <ATTLIST linear_shrinkage_measurement_unit tag_id CDATA #REQUIRED >
105
106 <ELEMENT manufacturer ( product_id, product_name ) >
107 <ATTLIST manufacturer id CDATA #REQUIRED >
108 <ATTLIST manufacturer tag_id CDATA #REQUIRED >
109
110 <ELEMENT material ( material_type, material_description, material_properties ) >
111 <ATTLIST material tag_id CDATA #REQUIRED >
112
```

FIG. 3C

File: F:\XML-first\johns.manville.filtration.rev1.00.00.dtd 11/30/01, 10:11:49PM

113 <ELEMENT material\_description EMPTY >  
114 <ATTLIST material\_description tag\_id CDATA #REQUIRED >  
115  
116 <ELEMENT material\_properties ( grade, nominal\_diameter\_type, diameter\_min\_val, diameter\_max\_val, diameter\_measurement\_unit ) >  
117 <ATTLIST material\_properties tag\_id CDATA #REQUIRED >  
118  
119 <ELEMENT material\_type EMPTY >  
120 <ATTLIST material\_type tag\_id CDATA #REQUIRED >  
121  
122 <ELEMENT mean\_temperature EMPTY >  
123 <ATTLIST mean\_temperature tag\_id CDATA #REQUIRED >  
124 <ATTLIST mean\_temperature value CDATA #REQUIRED >  
125  
126 <ELEMENT mean\_temperature\_measurement\_unit EMPTY >  
127 <ATTLIST mean\_temperature\_measurement\_unit tag\_id CDATA #REQUIRED >  
128  
129 <ELEMENT msds\_data EMPTY >  
130 <ATTLIST msds\_data tag\_id CDATA #REQUIRED >  
131  
132 <ELEMENT nominal\_diameter\_type EMPTY >  
133 <ATTLIST nominal\_diameter\_type tag\_id CDATA #REQUIRED >  
134 <ATTLIST nominal\_diameter\_type value CDATA #REQUIRED >  
135  
136 <ELEMENT product ( description, uses, chemical\_composition, special\_features, msds\_data, warranty\_info, surface\_area, material\_specifications ) >  
137 <ATTLIST product id CDATA #REQUIRED >  
138 <ATTLIST product tag\_id CDATA #REQUIRED >  
139  
140 <ELEMENT product\_density EMPTY >  
141 <ATTLIST product\_density tag\_id CDATA #REQUIRED >  
142 <ATTLIST product\_density value CDATA #REQUIRED >  
143  
144 <ELEMENT product\_density\_measurement\_unit EMPTY >  
145 <ATTLIST product\_density\_measurement\_unit tag\_id CDATA #REQUIRED >  
146  
147 <ELEMENT product\_id EMPTY >  
148 <ATTLIST product\_id tag\_id CDATA #REQUIRED >  
149 <ATTLIST product\_id value CDATA #REQUIRED >  
150  
151 <ELEMENT product\_name EMPTY >  
152 <ATTLIST product\_name tag\_id CDATA #REQUIRED >  
153  
154 <ELEMENT shrinkage ( shrinkage\_temp, shrinkage\_temp\_measurement\_unit, linear\_shrinkage, linear\_shrinkage\_measurement\_unit ) >  
155 <ATTLIST shrinkage tag\_id CDATA #REQUIRED >  
156  
157 <ELEMENT shrinkage\_temp EMPTY >  
158 <ATTLIST shrinkage\_temp tag\_id CDATA #REQUIRED >  
159 <ATTLIST shrinkage\_temp value CDATA #REQUIRED >  
160  
161 <ELEMENT shrinkage\_temp\_measurement\_unit EMPTY >  
162 <ATTLIST shrinkage\_temp\_measurement\_unit tag\_id CDATA #REQUIRED >  
163  
164 <ELEMENT special\_features EMPTY >  
165 <ATTLIST special\_features tag\_id CDATA #REQUIRED >  
166  
167 <ELEMENT specifications ( shrinkage, thermal ) >  
168 <ATTLIST specifications tag\_id CDATA #REQUIRED >

FIG. 3D

File: F:\XML-firstcut\johns.manville.filtration.rev1.00.00.dtd 11/30/01, 10:11:49PM

10776-1U1-00000001

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169 <ELEMENT subcategory EMPTY >
170 <IATTLIST subcategory id CDATA #REQUIRED >
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172 <IATTLIST subcategory tag_id CDATA #REQUIRED >
173
174 <ELEMENT surface_area EMPTY >
175 <IATTLIST surface_area measure CDATA #REQUIRED >
176 <IATTLIST surface_area tag_id CDATA #REQUIRED >
177 <IATTLIST surface_area value CDATA #REQUIRED >
178
179 <ELEMENT thermal ( product_density, product_density_measurement_unit, mean_temperature, mean_temperature_measurement_unit, thermal_conductivity, thermal_conductivity_measurement_unit ) >
180 <IATTLIST thermal tag_id CDATA #REQUIRED >
181
182 <ELEMENT thermal_conductivity EMPTY >
183 <IATTLIST thermal_conductivity tag_id CDATA #REQUIRED >
184 <IATTLIST thermal_conductivity value CDATA #REQUIRED >
185
186 <ELEMENT thermal_conductivity_measurement_unit EMPTY >
187 <IATTLIST thermal_conductivity_measurement_unit tag_id CDATA #REQUIRED >
188
189 <ELEMENT usage_description EMPTY >
190 <IATTLIST usage_description tag_id CDATA #REQUIRED >
191
192 <ELEMENT uses ( usage_description ) >
193 <IATTLIST uses tag_id CDATA #REQUIRED >
194
195 <ELEMENT warranty_info ( warranty_text, effective_date, duration ) >
196 <IATTLIST warranty_info tag_id CDATA #REQUIRED >
197
198 <ELEMENT warranty_text EMPTY >
199 <IATTLIST warranty_text tag_id CDATA #REQUIRED >
```

FIG. 3E

FIG. 21 - 9502001

UCID

A	B	C	D	E	F	G
Data/Unit ID (Item Number)	Filter Type	Product Name	Product Series	Product Description	Material	Filtration Grade
1						
3	Air		Delta-Aire			
4						
5	Air	Delta-Aire Filtration Products	DA-SP - Self Pleat Media	Self-Pleat Media	{SP - Class 2 glass scrim} or {B2 - Class 2 non-woven polyester or nylon	DA-30-SP
6	Air	Delta-Aire Filtration Products	DA-SP - Self Pleat Media	Self-Pleat Media	{SP - Class 2 glass scrim} or {B2 - Class 2 non-woven polyester or nylon	DA-40-SP
7	Air	Delta-Aire Filtration Products	DA-SP - Self Pleat Media	Self-Pleat Media	{SP - Class 2 glass scrim} or {B2 - Class 2 non-woven polyester or nylon	DA-50-SP
8	Air	Delta-Aire Filtration Products	DA-SP - Self Pleat Media	Self-Pleat Media	{SP - Class 2 glass scrim} or {B2 - Class 2 non-woven polyester or nylon	DA-60-SP
9	Air	Delta-Aire Filtration Products	DPG Series - Differential Pressure Glass	Fiber glass air filter media	B2 - Class 2 non-woven polyester	DPG-82 B2
10	Air	Delta-Aire Filtration Products	DPG Series - Differential Pressure Glass	Fiber glass air filter media	B2 - Class 2 non-woven polyester	DPG-95 B2

FIG. 21 - 9502001



TABLE "33000"

H	I	J	K	L	M	N
Media Color	Thickness - In. (mm)	Weight - gm/ft <sup>2</sup> (gm/m <sup>2</sup> )	Air Permeability - In. W.G. (Pa)	Initial Flat Sheet Particle Efficiency - %	Filtration Application Atmospheric Efficiency - %	Flammability - UL- Class
Choice of Amber, Orange, Purple, Lime Green, Brown, Yellow, (Color coded to identify efficiency ranges)						
Amber	0.16 (4.1)	11.0 (116.4)	0.03 (7.5)	4 - 8	30 -35	2
Amber	0.16 (4.1)	11.3 (121.6)	0.04 (10.0)	8-12	40-45	2
Amber	0.16 (4.1)	11.8 (127.0)	0.06 (14.9)	12-16	50-55	2
Orange	0.16 (4.1)	14.0 (150.7)	0.08 (19.9)	18-23	60-65	2
Purple	0.15 (3.8)	3.2 (34.4)	0.13 (32.4)	56-66	80-85	2
Lime Green	0.15 (3.8)	3.5 (37.7)	0.27 (67)	75-85	90-95	2

FIG. 4B

FIG. 4C

	O	P	Q	R	S	T
	Certifications	Roll Width - In. (cm)	Roll Length - In. Ft. (In. M)	Roll Cores - Chipboard ID - In. (cm)	Backings & Maximum Recommended Working Air Temperature - Degrees Fahrenheit (Degrees Celsius)	Produced As
1						
3						
4						
5	ISO-9002 Certified	12-25 (30.5-63.5)	500 (152)	2 (5.1)	250 (121) Note: this applies to (SP - Class 2 glass scrim) and (B2 - Class 2 non-woven polyester or nylon)	Roll of DA-SP series media bonded to a glass mat backing that is self-supporting when pleated and heat set
6	ISO-9002 Certified	12-25 (30.5-63.5)	500 (152)	2 (5.1)	250 (121) Note: this applies to (SP - Class 2 glass scrim) and (B2 - Class 2 non-woven polyester or nylon)	Roll of DA-SP series media bonded to a glass mat backing that is self-supporting when pleated and heat set
7	ISO-9002 Certified	12-25 (30.5-63.5)	500 (152)	2 (5.1)	250 (121) Note: this applies to (SP - Class 2 glass scrim) and (B2 - Class 2 non-woven polyester or nylon)	Roll of DA-SP series media bonded to a glass mat backing that is self-supporting when pleated and heat set
8	ISO-9002 Certified	12-25 (30.5-63.5)	500 (152)	2 (5.1)	250 (121) Note: this applies to (SP - Class 2 glass scrim) and (B2 - Class 2 non-woven polyester or nylon)	Roll of DA-SP series media bonded to a glass mat backing that is self-supporting when pleated and heat set
9	ISO-9002 Certified	12-72 (30-183)	1000 (305)	2 (5.1)	250 (121) Note: This applies to (B2 - Class 2 non-woven polyester)	Roll form, color coded for identification of efficiency ranges
10	ISO-9002 Certified	12-72 (30-183)	1000 (305)	2 (5.1)	250 (121) Note: This applies to (B2 - Class 2 non-woven polyester)	Roll form, color coded for identification of efficiency ranges

FIG. 4C

FIG. 4D

U	V	W	X	Y	Z	AA	AB
Special Features	Specific Features Available Upon Request	Uses	Ratings	Manufacturer Information	Telephone #	Internet Address	Hazard Label
Neither the media binder nor Fiber Glass support microbial growth	Custom Widths and Lengths	Panel Filters, Filters for HVAC systems, Paint Spray Booths, FDA applications, Clean Rooms	Filter Media, by itself, will meet the UL Class rating when tested in accordance with UL900 "Standard for Air Filter Units"	Johns Manville	303-978-2000	<a href="http://www.jm.com">http://www.jm.com</a>	FBG-003
Neither the media binder nor Fiber Glass support microbial growth	Custom Widths and Lengths	Panel Filters, Filters for HVAC systems, Paint Spray Booths, FDA applications, Clean Rooms	Filter Media, by itself, will meet the UL Class rating when tested in accordance with UL900 "Standard for Air Filter Units"	Johns Manville	303-978-2000	<a href="http://www.jm.com">http://www.jm.com</a>	FBG-003
Neither the media binder nor Fiber Glass support microbial growth	Custom Widths and Lengths	Panel Filters, Filters for HVAC systems, Paint Spray Booths, FDA applications, Clean Rooms	Filter Media, by itself, will meet the UL Class rating when tested in accordance with UL900 "Standard for Air Filter Units"	Johns Manville	303-978-2000	<a href="http://www.jm.com">http://www.jm.com</a>	FBG-003
Neither the media binder nor Fiber Glass support microbial growth	Custom Widths and Lengths	Panel Filters, Filters for HVAC systems, Paint Spray Booths, FDA applications, Clean Rooms	Filter Media, by itself, will meet the UL Class rating when tested in accordance with UL900 "Standard for Air Filter Units"	Johns Manville	303-978-2000	<a href="http://www.jm.com">http://www.jm.com</a>	FBG-003
Neither the media binder nor Fiber Glass support microbial growth	Custom Widths and Lengths; additional grades are available to meet specific applications	Panel Filters, Filters for HVAC systems, Paint Spray Booths, FDA applications, Clean Rooms	Filter Media, by itself, will meet the UL Class rating when tested in accordance with UL900 "Standard for Air Filter Units"	Johns Manville	303-978-2000	<a href="http://www.jm.com">http://www.jm.com</a>	FBG-003
Neither the media binder nor Fiber Glass support microbial growth	Custom Widths and Lengths; additional grades are available to meet specific applications	Panel Filters, Filters for HVAC systems, Paint Spray Booths, FDA applications, Clean Rooms	Filter Media, by itself, will meet the UL Class rating when tested in accordance with UL900 "Standard for Air Filter Units"	Johns Manville	303-978-2000	<a href="http://www.jm.com">http://www.jm.com</a>	FBG-003

FIG. 4D

# Category - Air Filtration

## Johns - Manville Delta-Aire Air Filtration

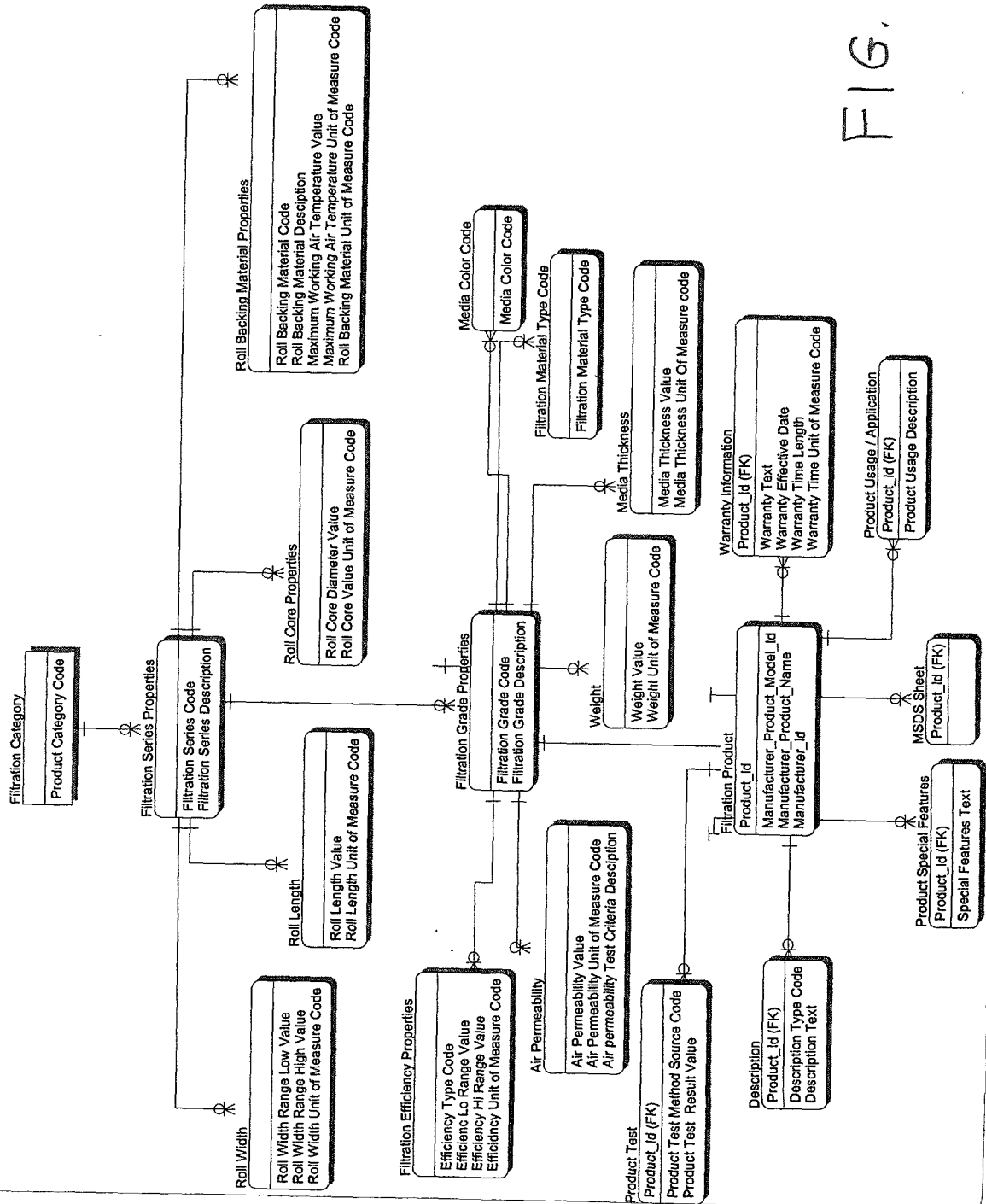
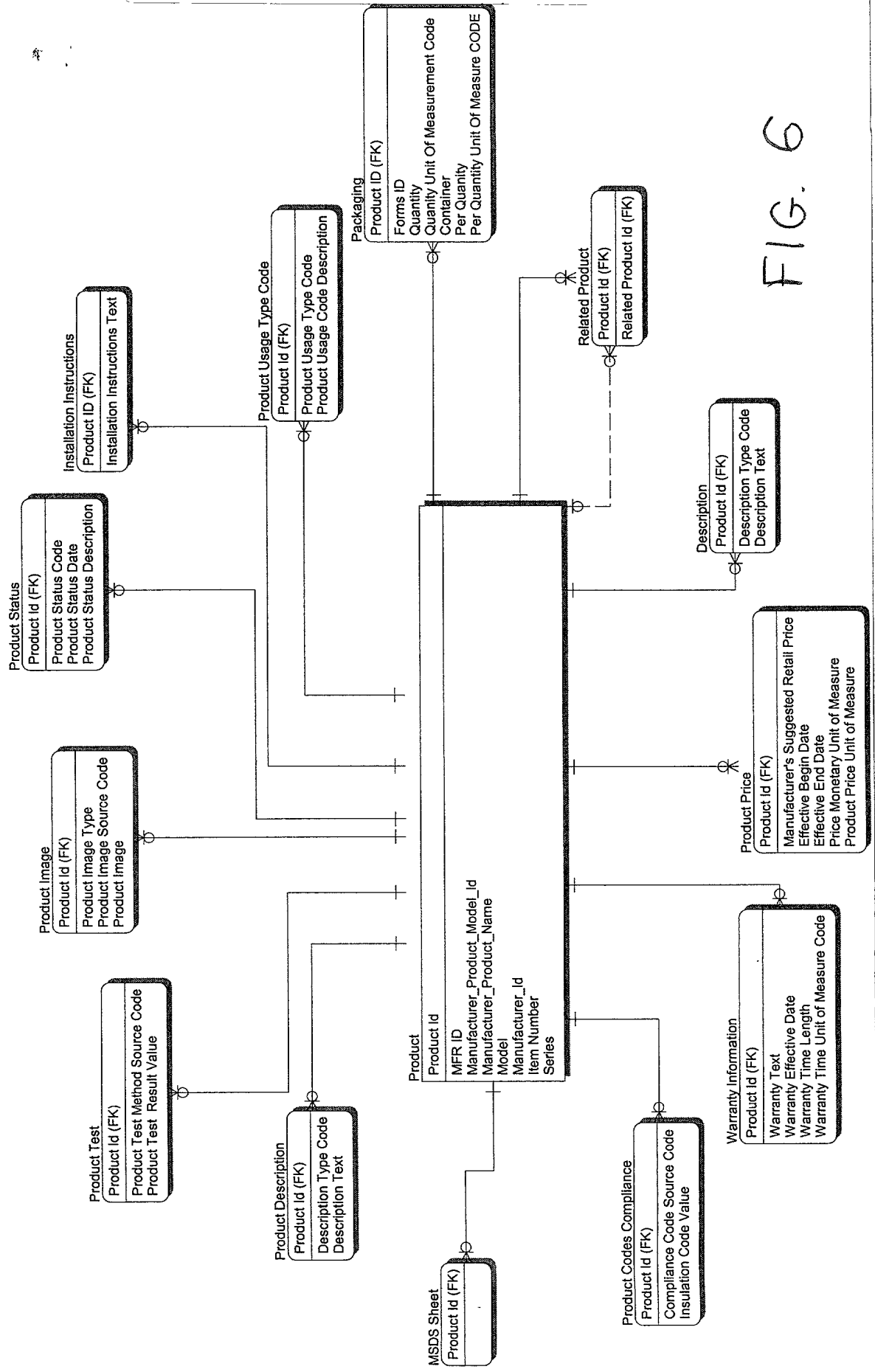


FIG. 5

FIG. 6

# Product Category





DATA BUILD

## Logout

Your open project is:

### Indigo Run

To view project profile,  
click on project name.

- Company
- My User Profile
- My Projects
- My Products

Title: Assimilation, Integration and Deployment ... Technology  
Inventors: Jonathan S. Levkoff et al.  
Attorney Docket No. 10776-1U1 Cust. No. 570  
Express Mail Label No., EL665894681US

Home / Corporate / Careers / Site Map / Contact Us

Language

U.S. English

Project Notebook Search Toolbox Reports Settings Help

UCID

Return to Report Builder

## Indigo Run Reports

Total Product Cost Report to View

Product Name	Manufacturer	Data/Built Number	Quantity	MSRP	Total Cost
1. Wood Window	Pella	123A23B7678CD7825FAC218	5	US\$ 160	US\$ 800
2. Fluorescent Light	Lithonia	56324120AB4546221CEEF215	10	US\$ 50	US\$ 500
3. Toilet	American Standard	35689ADF895213005B3EF69	3	US\$ 120	US\$ 360
4. Wood Connector	Simpson	789601099ADE19708584CDE	4	US\$ 5	US\$ 20
5. Modular Brick	Triangle	7678CD7825FAC218123A23B	7	US\$ 1,500	US\$ 10,500
6. Gypsum Sheathing	National Gypsum	8CD7825FAC218123A23B767	1	US\$ 200	US\$ 200
7. Elevator	Otis	23B7678CD7825FAC218123A	1	US\$ 25,000	US\$ 25,000
8. Cement Mix	LaFarge	5FAC218123A23B7678CD782	1	US\$ 750	US\$ 750
9. Kitchen Faucet	Delta	CD7825FAC218123A23B767B	2	US\$ 90	US\$ 180
10. Wood Door	Weyerhaeuser	78CD7825FAC218123A23B76	4	US\$ 180	US\$ 720

Total Project Cost US\$ 39,030

Print Export Compare Products Edit Contents Edit Template

Return to Report Builder

FIG. 7A



DATAILITY

Logout

Your open project is:

## Indigo Run

To view project profile,  
click on project name.

- Company
- My User Profile
- My Projects
- My Products

Title: Assimilation, Integration and Deployment ... Technology  
Inventors: Jonathan S. Levkoff et al.  
Attorney Docket No. 10776-1U1 Cust. No. 570  
Express Mail Label No.. E1665884681US

Home / Corporate / Careers / Site Map / Contact Us

Language

U.S. English

Project Notebook Search Toolbox Reports Settings Help

Return to Report Builder

### Indigo Run Reports

Product Quantity Report to View

	Product Name	Manufacturer	Product Description	DataBilt Number	Quantity	MSRP
<input type="checkbox"/>	1. Wood Window	Pella	Double-Hung	123A23B7678CD7825FAC218	5	US\$ 160
<input type="checkbox"/>	2. Fluorescent Light	Lithonia	2' x 4' Recessed	56324120AB4546221CEF215	10	US\$ 50
<input type="checkbox"/>	3. Toilet	American Standard	Floor Mount	35689ADF895213005B3EF69	3	US\$ 120
<input type="checkbox"/>	4. Wood Connector	Simpson	Wood-to-Wood	789601099ADE19788584GDE	4	US\$ 5
<input type="checkbox"/>	5. Modular Brick	Triangle	Standard Red	7678CD7825FAC218123A23B	7	US\$ 1,500
<input type="checkbox"/>	6. Gypsum Sheathing	National Gypsum	4' x 8' Standard	8CD7825FAC218123A23B767	1	US\$ 200
<input type="checkbox"/>	7. Elevator	Otis	Pneumatic Piston	23B7678CD7825FAC218123A	1	US\$ 25,000
<input type="checkbox"/>	8. Cement Mix	LaFarge	Standard White	5FAC218123A23B7678CD782	1	US\$ 750
<input type="checkbox"/>	9. Kitchen Faucet	Delta	Traditional	CD7825FAC218123A23B7678	2	US\$ 90
<input type="checkbox"/>	10. Wood Door	Weyerhaeuser	6-Panel Red Oak	78CD7825FAC218123A23B76	4	US\$ 180

Print Export Compare Products Edit Contents Edit Template

Return to Report Builder

FIG. 7B



DATA BUILT

Logout

Your open project is:  
**Indigo Run**  
To view project profile,  
click on project name.

- Company
- My User Profile
- My Projects
- My Products

Indigo Run Reports

- | Product Name                                  |
|---|
| <input type="checkbox"/> 1. Wood Window       |
| <input type="checkbox"/> 2. Fluorescent Light |
| <input type="checkbox"/> 3. Toilet            |
| <input type="checkbox"/> 4. Wood Connector    |
| <input type="checkbox"/> 5. Modular Brick     |
| <input type="checkbox"/> 6. Gypsum Sheathing  |
| <input type="checkbox"/> 7. Elevator          |
| <input type="checkbox"/> 8. Cement Mix        |
| <input type="checkbox"/> 9. Kitchen Faucet    |
| <input type="checkbox"/> 10. Wood Door        |

Print

Export

Compare Products

Edit Contents

Edit Template

UCID

Warning

You have recently moved this project to a new location. Some of the products that you have selected do not meet code requirements in the new jurisdiction. It is highly recommended that you replace the following products:

DataBUILT Number	Manufacturer	Product Name
<input type="checkbox"/> 123A23B7678CD7825FAC218	Pella	Wood Window
<input type="checkbox"/> 56324120AB4546221CEF215	American Standard	Toilet
<input type="checkbox"/> 35689ADF895213005B3EF89	Triangle	Modular Brick
<input type="checkbox"/> 789601099ADE19708584CDE	Otis	Elevator

Find Comparable Products

Review Code

Ignore

Project Notebook

Search

Toolbox

Reports

Settings

Help

Language

Home / Corporate / Careers / Site Map / Contact Us

U.S. English

Return to Report Builder

FIG. 7C







Home / Corporate / Site Map / Contact Us / Logout

Language U.S. English

Logout

Project Notebook

Search

Toolbox

Reports

Settings

Help

Your open project is:

None

To view project profile, click on project name.

Company

My User Profile

My Projects

My Products

Business Sector:

Choices

- ☒ Commercial
- ☐ Residential
- ☐ Infrastructure

Preliminary Budget:

US \$2,000,000

Preliminary Size:

55,000 square feet

Preliminary Completion Date:

12/10/2002

Project Type:

Developers

?

Building Type:

New Construction

?

Primary Function:

Healthcare

?

Secondary Function:

Surgical

?

Project Graphic Symbolology

☒ Application

File Name

Last Modified Date

User Name

☐ DataBuilt Default

☐

☐

☐

☐

Upload New Symbolology

Finish

After project profile, team and related companies are defined, click Finish to save.

FIG. 7E



Logout

U.S. English

Language

Home / Corporate / Careers / Site Map / Contact Us / Logout

Help

Settings

Reports

Toolbox

Search

Project Notebook

## PROJECT ADMINISTRATOR PRIVILEGES ENABLED

Please edit the project profile, project team, and related companies.

Edit Project Profile Edit Project Team Edit Project Related Companies

### Project Information

Required \*

Confidential ☒

Date Created\*

10/11/2001

Project Name\*

Indigo Run

Project Number\*

3569

Country\*

USA

Postal Code\*

29910

Address\*

1476 Fording Island Rd

State/Province/  
Canton\*

South Carolina

City\*

Bluffton

Project Description

This is my project description.

Project  
e-mail Address

project@indigorun.com

Phone Number

843-836-2168

Fax Number

843-836-2939

Project  
Web site Address

www.indigorun.com





Home / Corporate / Careers / Site Map / Contact Us / Logout

U.S. English

Language

Logout

Project Notebook

Search

Toolbox

Reports

Settings

Help

Your open project is:

None

To view project profile, click on project name.

- Company
- My User Profile
- My Projects

- My Products

COPY <Project Name> Preferences

Specification System: Master Format

COPY <Project Name> Details

Business Sector:

Choices:

- ☒ Commercial
- ☐ Residential
- ☐ Infrastructure

Preliminary Budget: US \$2,000,000

Preliminary Size: 55,000 square feet

Preliminary Completion Date: 12/10/2002

Project Type: Developers

Primary Function: Healthcare

Building Type: New Construction

Secondary Function: Surgical

COPY <Project Name> Graphics Symbolology

Application: [v] File Name: [v] Last Modified Date: [v] User Name: [v]

☐ DataBuilt Default

☐

☐

☐

Upload New Symbolology

Finish

After project profile, team and related companies are defined, click Finish to save.

FIG. 7H



DATABUILD

Logout

Your open project is:

**Indigo Run**

To view project profile,  
click on project name.

Company

My User Profile

My Projects

My Products

Home / Corporate / Careers / Site Map / Contact Us / Logout

U.S. English

<Project Name> Project Profile (Read-only)

Project Profile Project Team Project Related Companies

## Project Information

### Project Information

Project Name: Indigo Run  
Project Number: 3569  
Date Created: 10/11/2001  
Country: USA  
Postal Code: 29910  
State/Province/Canton: South Carolina  
City: Bluffton

Confidential: Yes  
Project Address: 1476 Fording Island Rd.  
Project Description: This is my project description.  
Project Phone Number: 843-838-2166  
Project e-mail Address: project@indigorun.com  
Project Web Site: www.indigorun.com

### Project Details

Business Sector: Commercial  
Project Type: Developers - Commercial  
Building Type: New Construction  
Preliminary Completion Date: 12/10/2002  
Preliminary Budget: US \$2,000,000  
Preliminary Size: 55,000 square feet  
Primary Function: Golf Clubhouse  
Secondary Function: Commercial Kitchen

### Project Preferences

Specification System: Master Format

### Project Graphic Sym biology

MicroStation J: MicroStation - Commercial  
AutoCAD 2002: AutoCAD - Consultants

Close Window

FIG. 7I

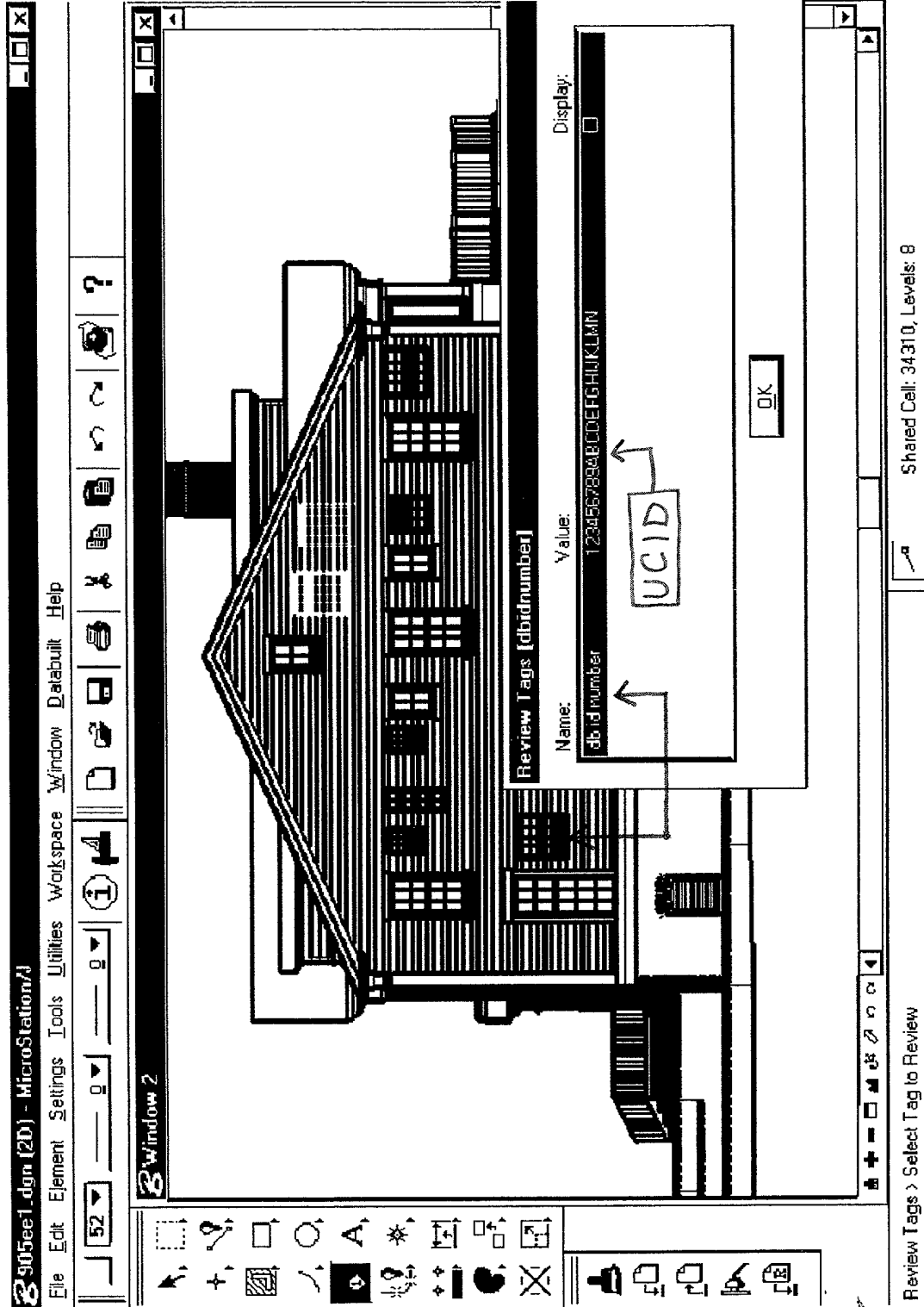


FIG. 8A

FIG. 8B

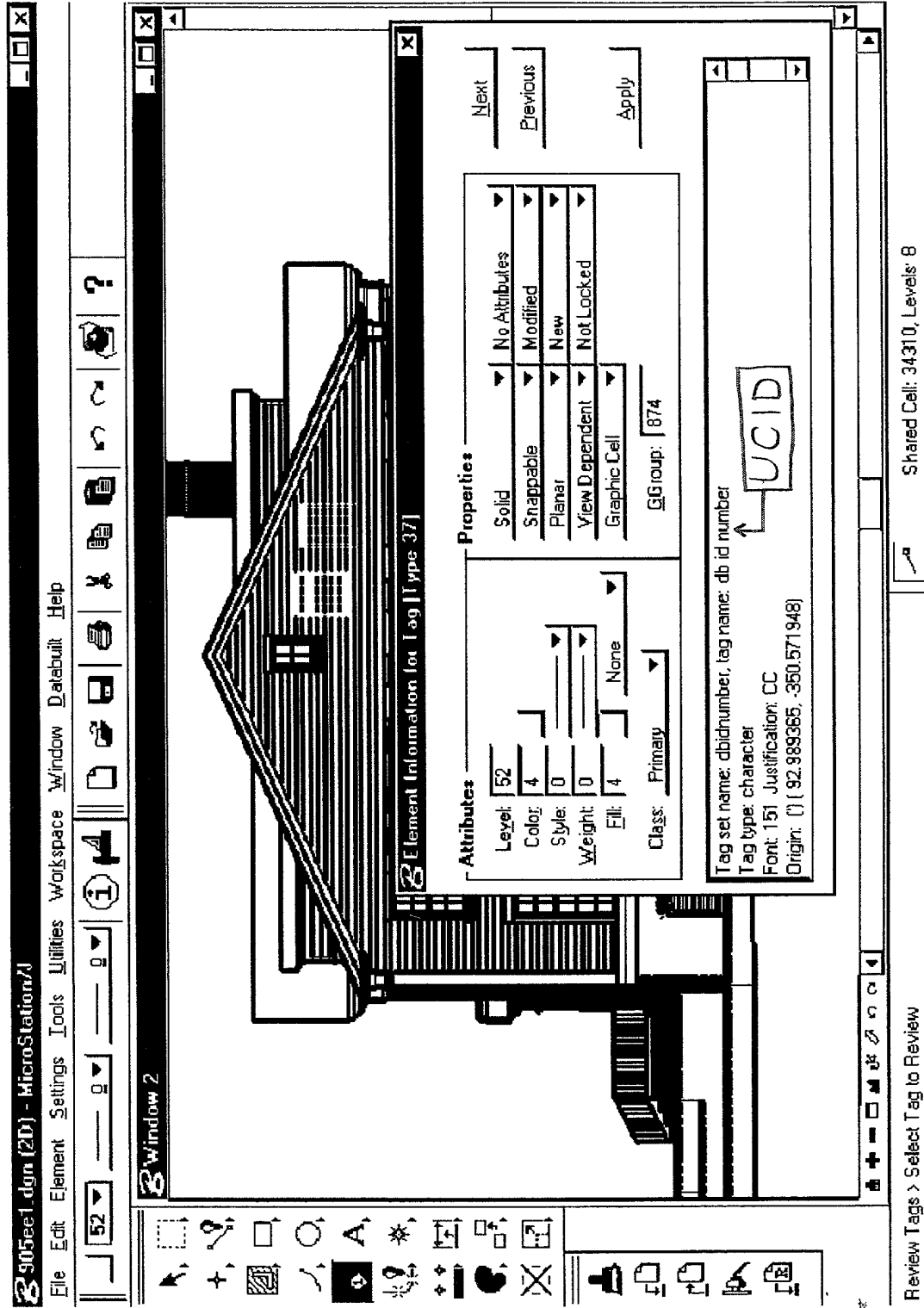


FIG. 8B



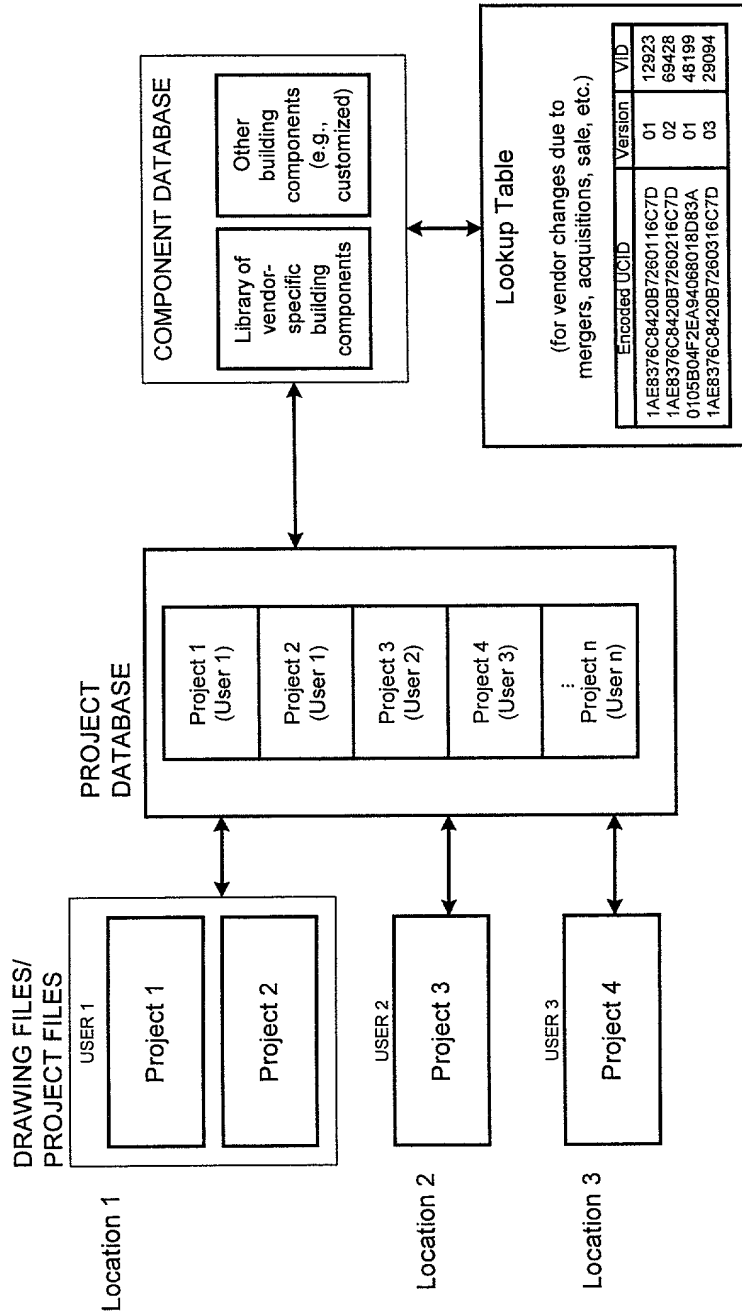


FIG. 9

"TABLET" 3530200T

VID GCID

Manufacturer	Product Name	DataBuilt Internal ID		Barcode			External Object Identifier (EOI)
		Mfr ID	Product ID	Mfr ID	Product ID	Version	
1 General Electric	3-inch Downlight	4992408	354622628234	4C2D98	529127E18A	00 73A5F	1.5.62.5.1.6.2.64.13.8.42.1.5.6.5
2 Lithonia	Recessed Accent	842562	354622628234	0CDB42	529127E18A	00 F62D8	1.5.62.5.1.6.2.64.13.8.39.1.5.5.4
3 Concord Lighting	Recessed Spot	3467626	354622628234	34E96A	529127E18A	01 A5162	1.5.62.5.1.6.2.64.13.8.42.1.5.6.5
4 Lightolier	In-Ceiling Spot	14551	12314819810	0038D7	2DE053CE2	00 251E5	1.5.62.5.1.6.2.64.13.0.42.0.7.2.0
5 Lightolier	Recessed Hi-Hat	14551	29348577299	0038D7	06D54FC013	00 82335	1.5.62.5.1.6.2.64.13.8.42.1.5.6.9
6 Champion Lighting	3 Inch Spot	241563	99274902850	03AF9B	171D3ECD42	00 D9391	1.5.62.5.1.6.2.64.13.6.42.1.5.6.9

unencoded UCID encoded UCID

FIG. 10

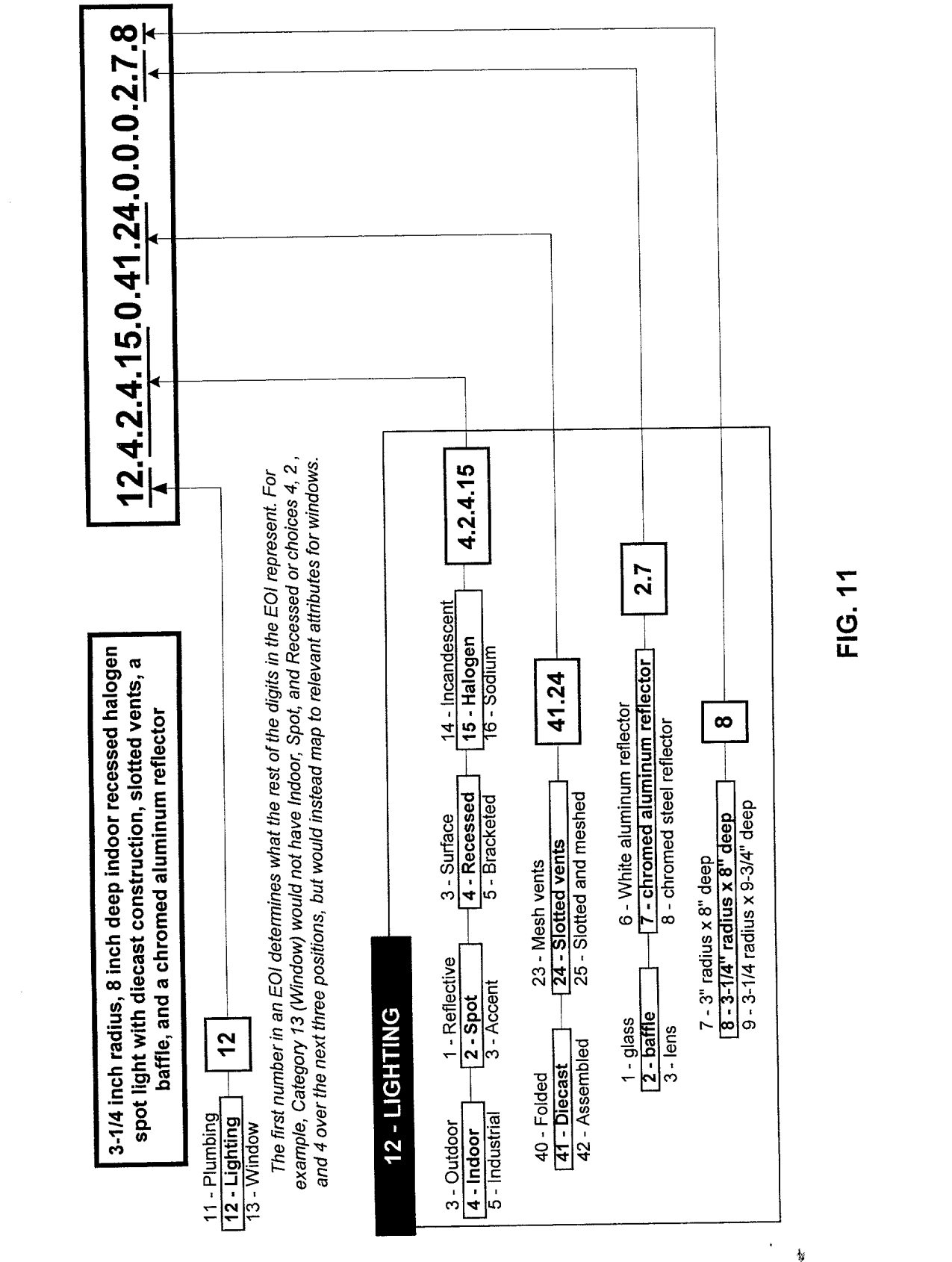


FIG. 11



DATA QUALITY

Logout

Your open project is:

Indigo Run

Company

My User Profile

My Projects

Favorites

UCID

Title: Assimilation, Integration and Deployment Technology

Inventors: Jonathan S. Levkoff et al  
Attorney Docket No. 10776-1U1  
Express Mail Label No. EL665884681US  
Cust. No. 570

FIG. 12

Home / Corporate / Careers / Site Map / Contact Us

U.S. English

Project Notebook

Search

Toolbox

Reports

Settings

Help

Select a category and type in a keyword or keywords into the search field and click Go.

Products

Manufacturers

Suppliers

Codes

Regulatory Agencies

News

Help Me Search  
Product Directory  
Search Preferences

Keyword Search

Go

Detailed Search

Result Display  
Click arrow to  
expand the result  
display options

View Details

Remove

View Details

Remove

View Details

Remove

Manufacturer Pella

Anderson

Marvin

DataBUILT

Identification  
Number

123A23B7678CD7825FAC218

56324120AB4546221CEF215

35689ADF895213005B3EF69

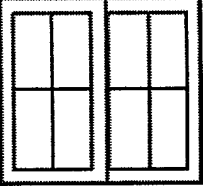
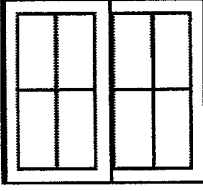
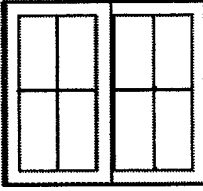
Product Type

Double Hung Window

Double Hung Window

Double Hung Window

2D/3D CAD  
Graphics



Manufacturer  
Model Number

PL749820

AD57984563

MV2246881

MSRP

\$350

\$300

\$325

Dimensions

20" x 30"

20" x 30"

20" x 30"

Warranty

10 years

5 years

7 years

Engineering  
Specifications

Here are the engineering  
specs

Here are the engineering  
specs

Here are the engineering  
specs

Performance  
Criteria

Here is the performance  
criteria.

Here is the performance  
criteria.

Here is the performance  
criteria.



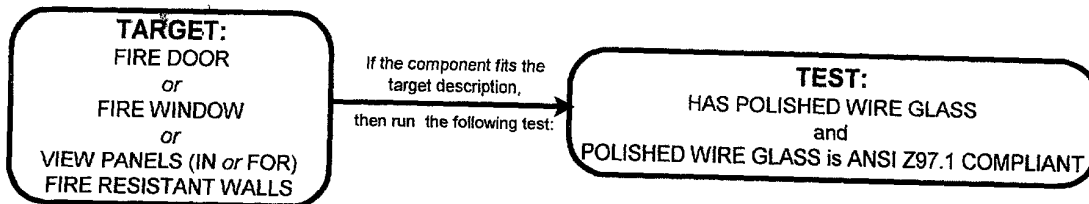


FIG. 14

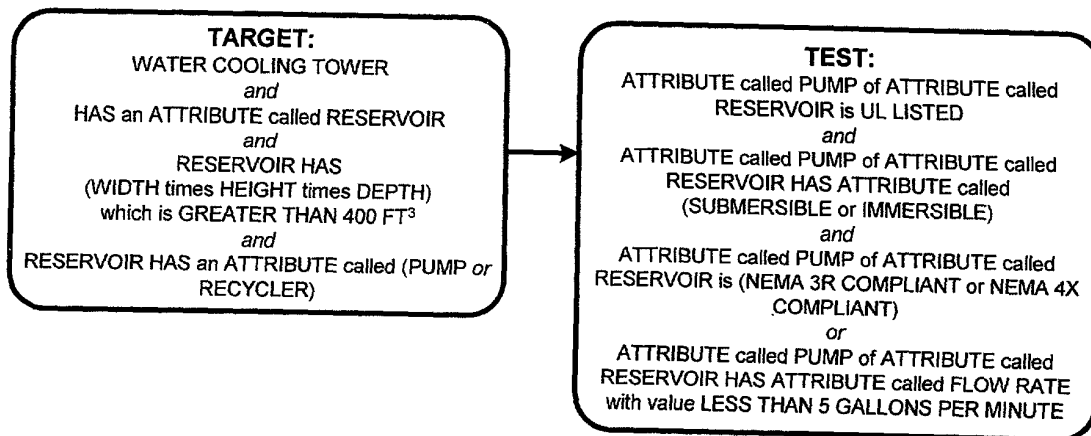


FIG. 15

FIG. 14

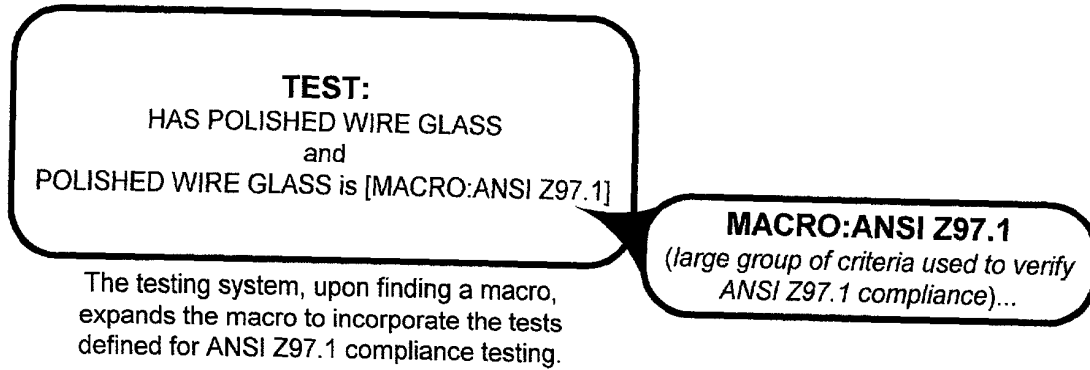


FIG. 16

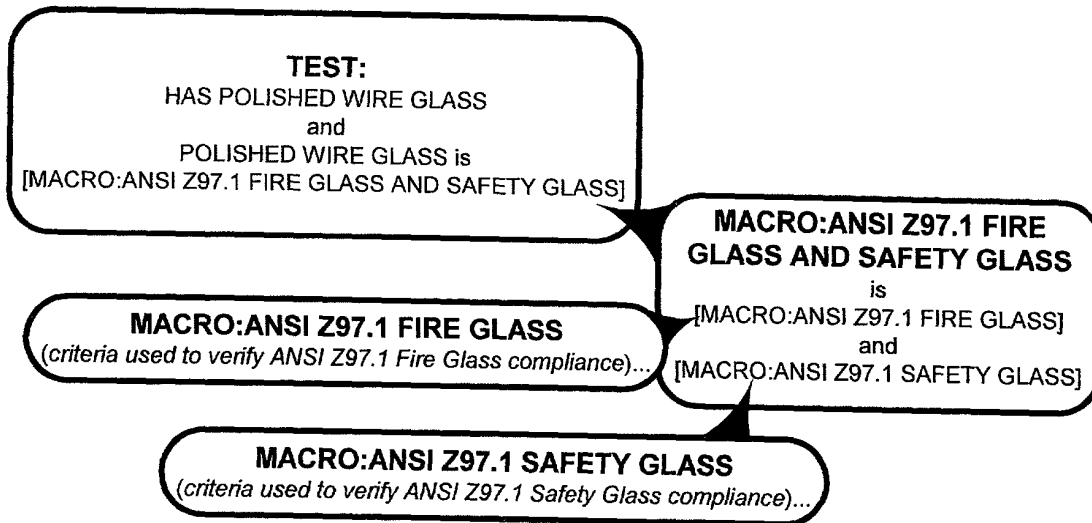


FIG. 17

FIG. 16

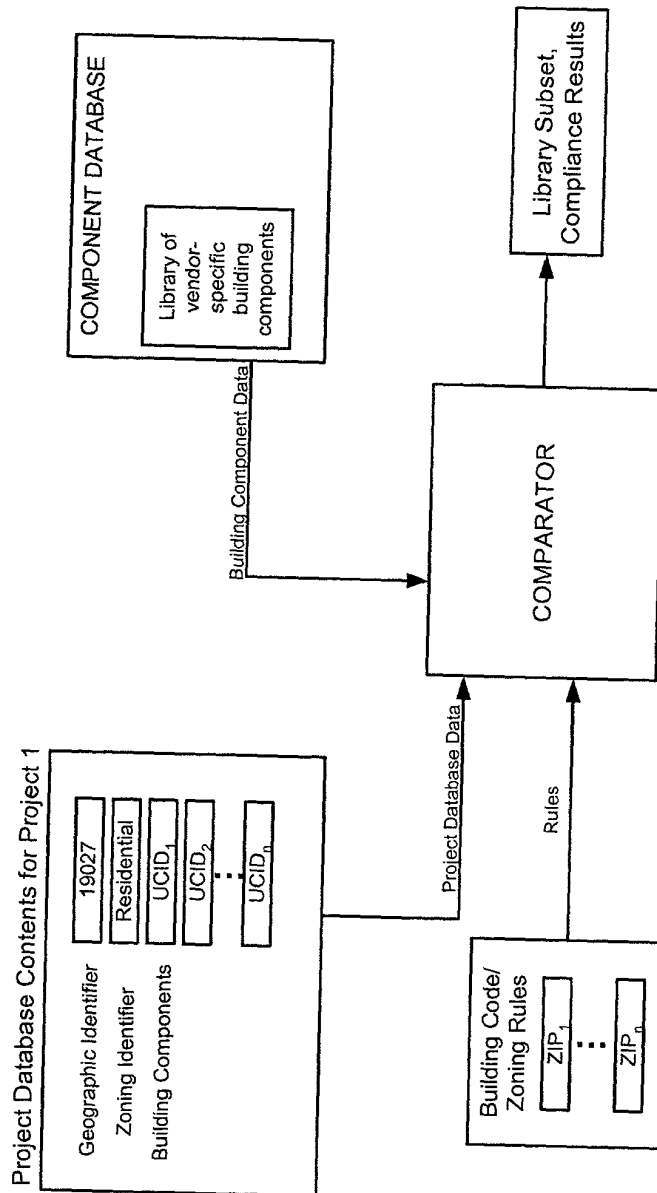


FIG. 18



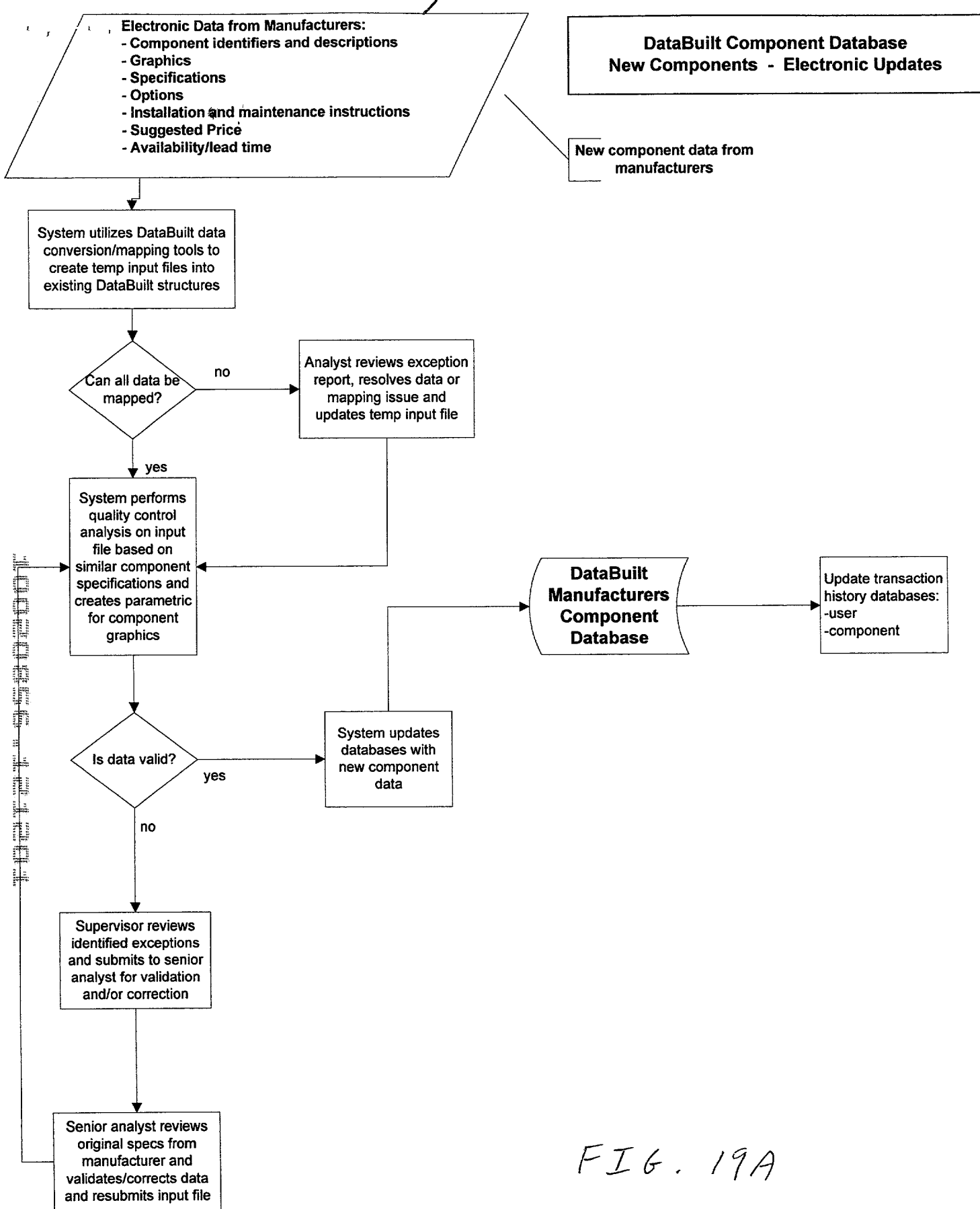


FIG. 19A

PROCESS FLOW: 1

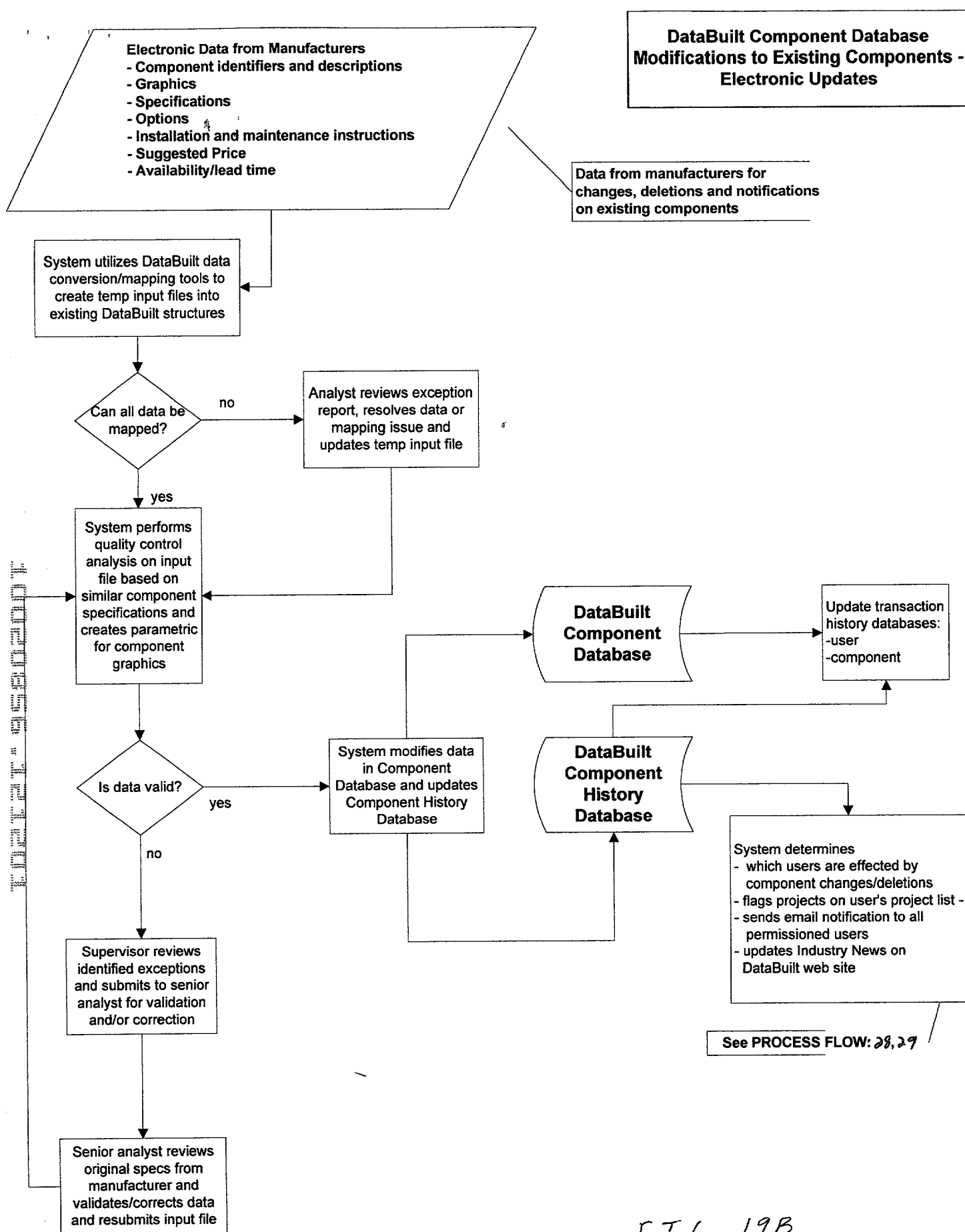


FIG. 19B

PROCESS FLOW: 2

Title: Assimilation, Integration and Deployment Technology  
 Inventors: Jonathan S Levkoff et al  
 Attorney Docket No. 10776-1U1 Cust. No. 570  
 Express Mail Label No. EL665884681US

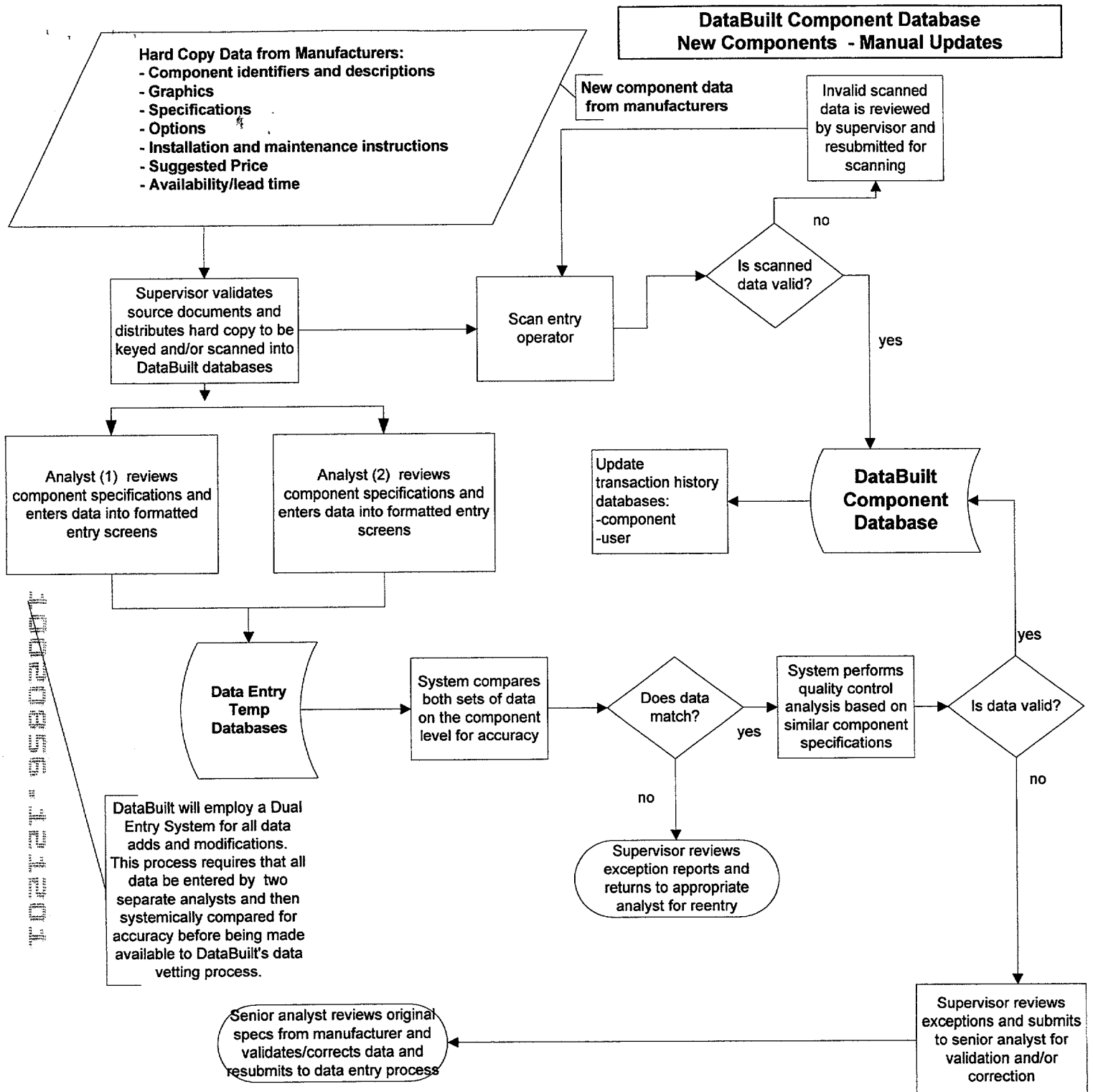


FIG. 19C

**PROCESS FLOW: 3**

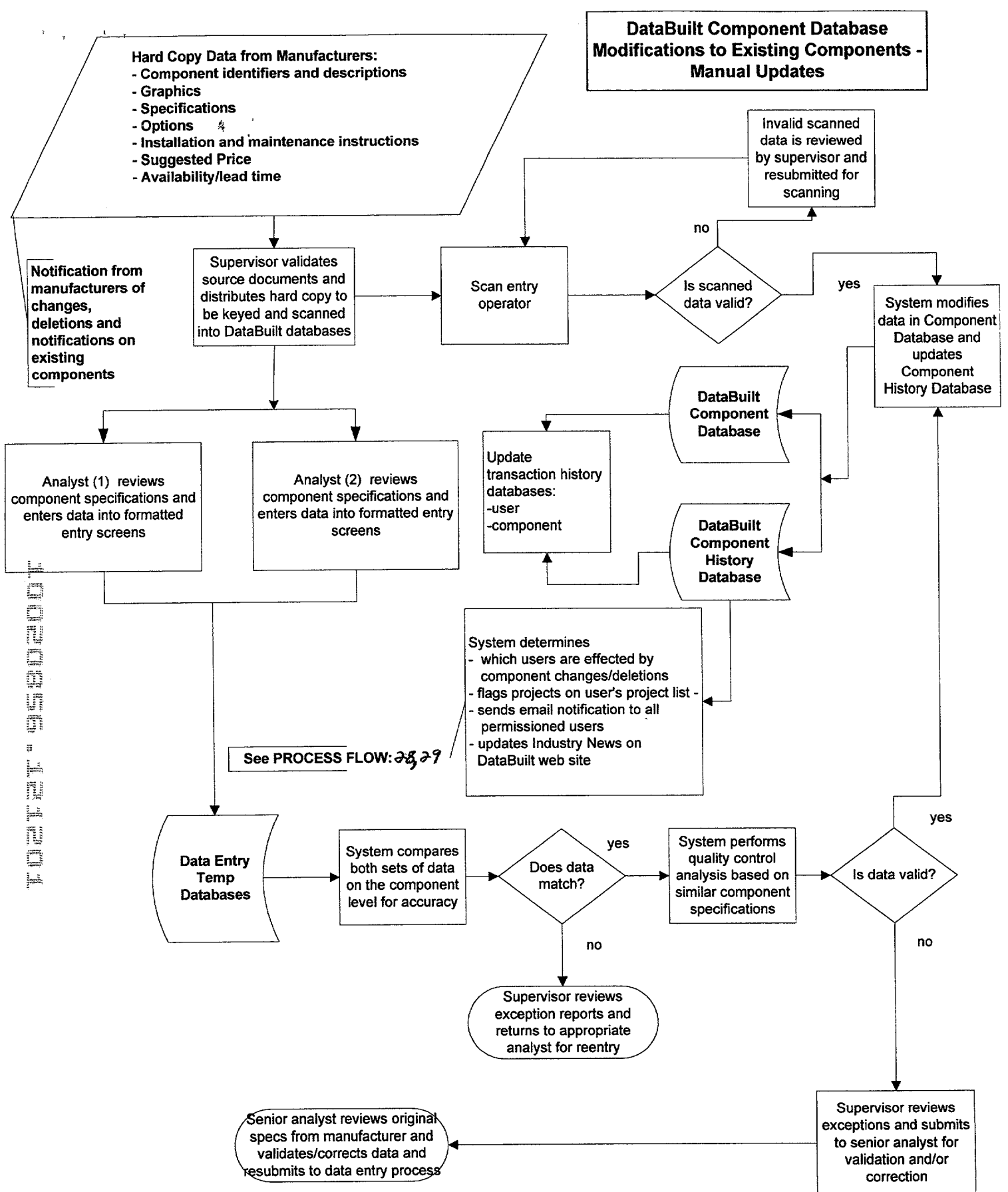


FIG. 19D

PROCESS FLOW: 4

Title: Assimilation, Integration and Deployment Technology  
 Inventors: Jonathan S. Levkoff et al  
 Attorney Docket No. 10776-1U1 Cust. No. 570  
 Express Mail Label No. EL665884681US

**Compliance Database:**

- Permitting
- Building Codes
- Engineering Specifications
- Engineering Best Practices
- Insurance Requirements
- Lender Requirements
- Governmental Regulatory Requirements (e.g. FEMA, FERC, FDA GNMA, OSHA, EPA etc.)
- Owner-Operator Standards
- AEC User Standards

**DataBuilt Compliance Database  
New Specifications - Manual/Electronic Updates**

New Specifications

Supervisor receives hard/  
electronic copies,  
validates sources, logs  
and passes to analysts for  
manual data mapping into  
compliance databases

Analyst (1) reviews  
specifications and maps text  
into appropriate formatted  
entry screens. Information  
which can not be mapped into  
existing screens is passed  
back to supervisor for review  
and resolution.

Data Entry Temp  
Databases

Analyst (2) reviews the  
on-line entries from  
Analyst (1) and validates  
interpretation of  
specification into  
formatted entry screens

Is data  
validated?

System performs  
quality control  
analysis

Is data valid?

Update transaction  
history databases:  
-user  
-compliance

DataBuilt  
Compliance  
Databases

Exceptions are  
passed back to  
Analyst (1) for  
review and re-  
entry

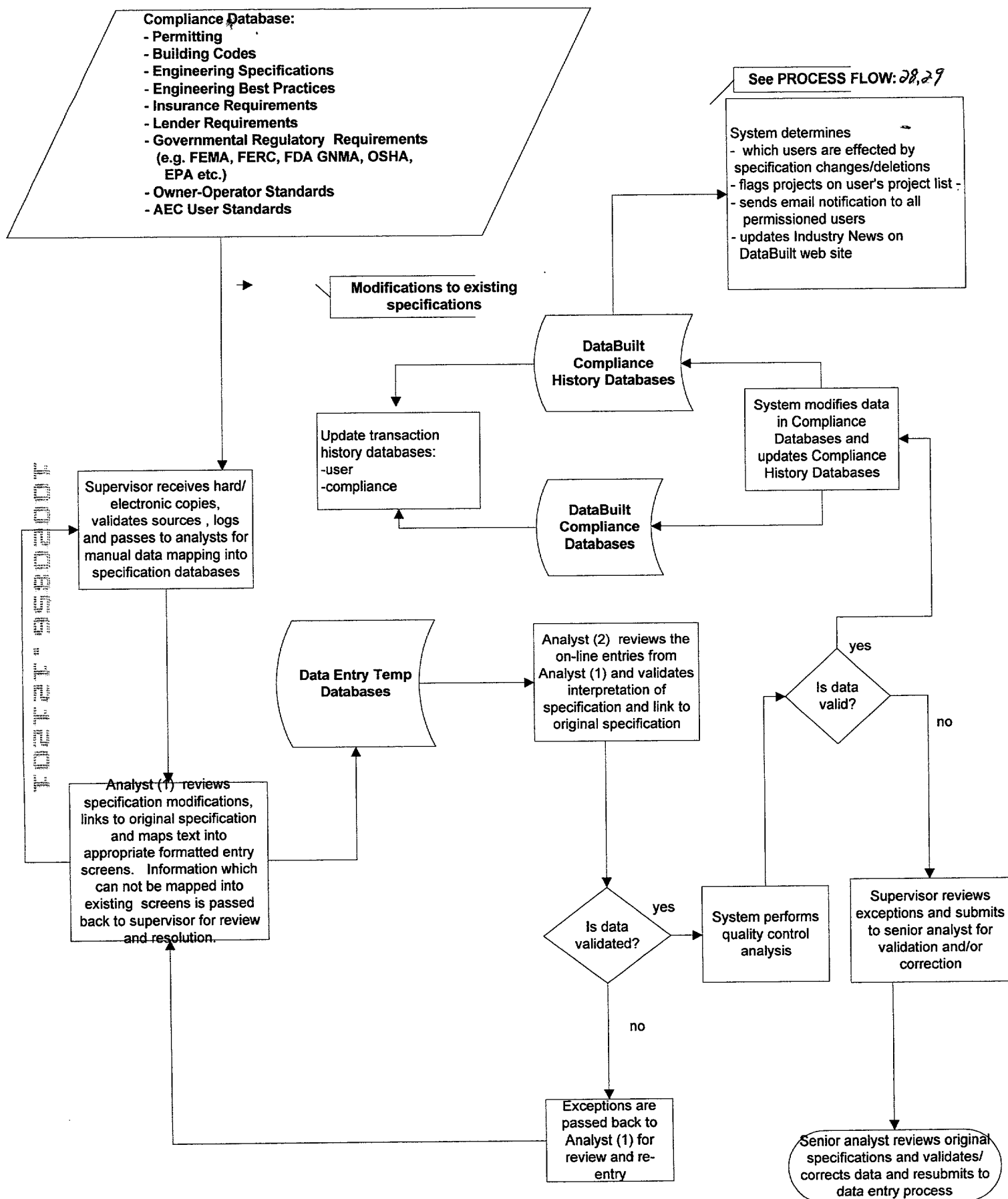
Senior analyst reviews original  
specifications and validates/  
corrects data and resubmits to  
data entry process

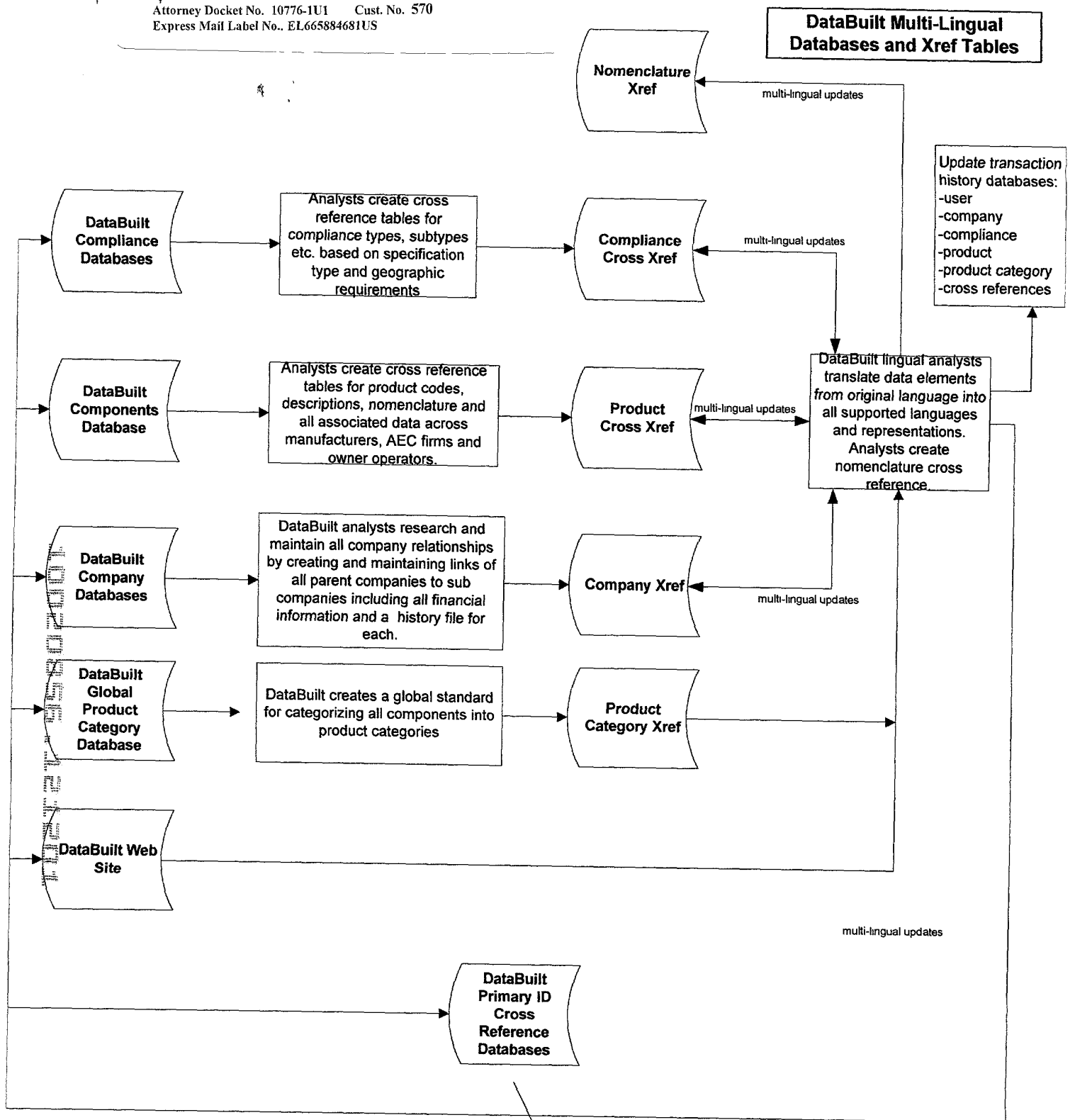
Supervisor reviews  
exceptions and submits  
to senior analyst for  
validation and/or  
correction

PROCESS FLOW: 5

FIG. 19E

**DataBuilt Compliance Database  
 Modifications - Manual/Electronic Updates**





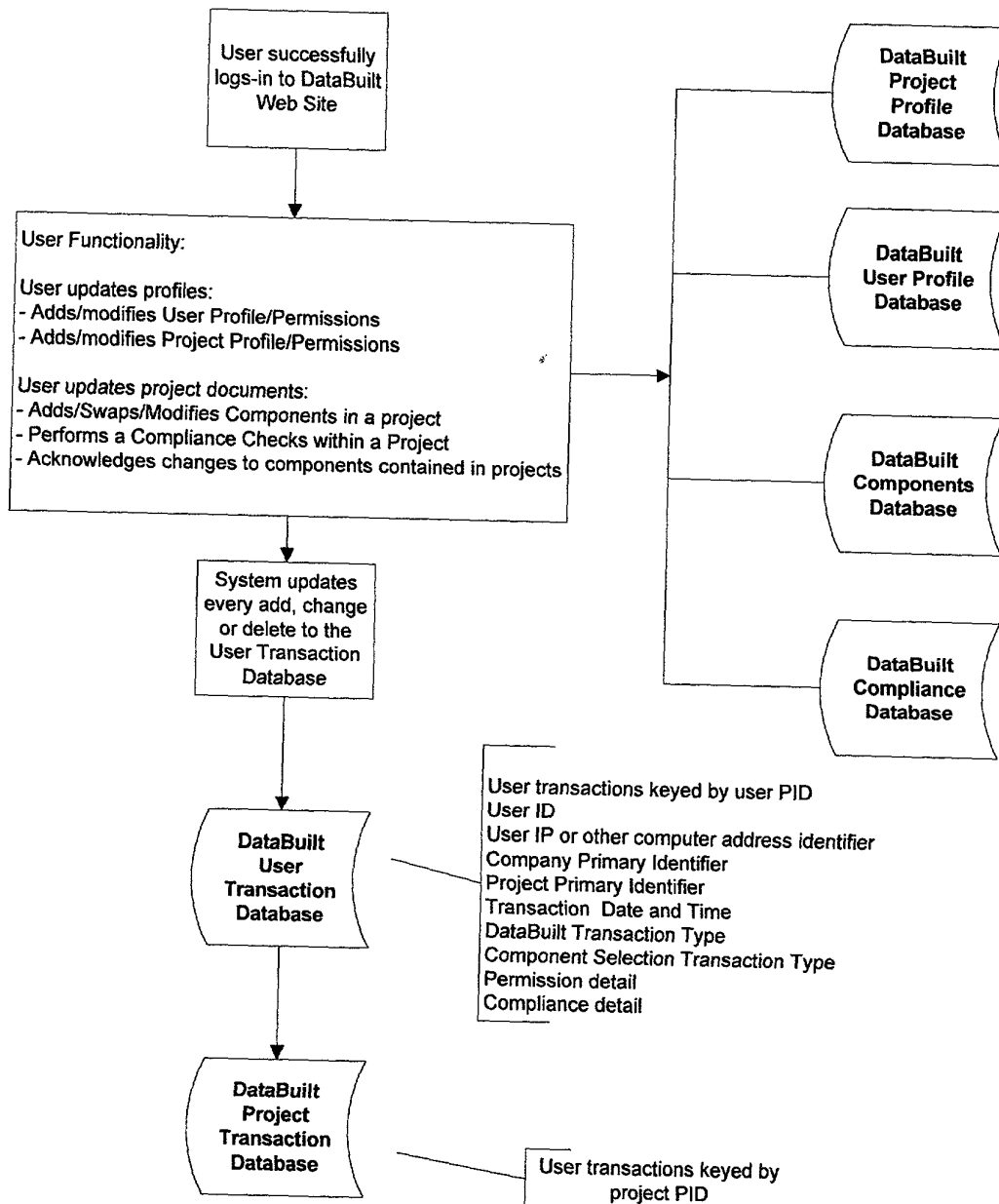
PROCESS FLOW: 7

FIG. 19G

DataBuilt assigns a DataBuilt Unique Primary ID (PID) to all data elements stored in DataBuilt Databases (e.g. user names, company names, component names, compliance code types (permit types, building codes, engineering specification type etc.), product categories etc.

For every PID established by DataBuilt, a sophisticated cross reference system is created which links DataBuilt's PID to all other IDs and information (description etc.) used in the AEC industry and in general business. This allows DataBuilt to add, maintain and track history by linking all data elements to the single unique identifier.

**DataBUILT User Transaction  
Databases**





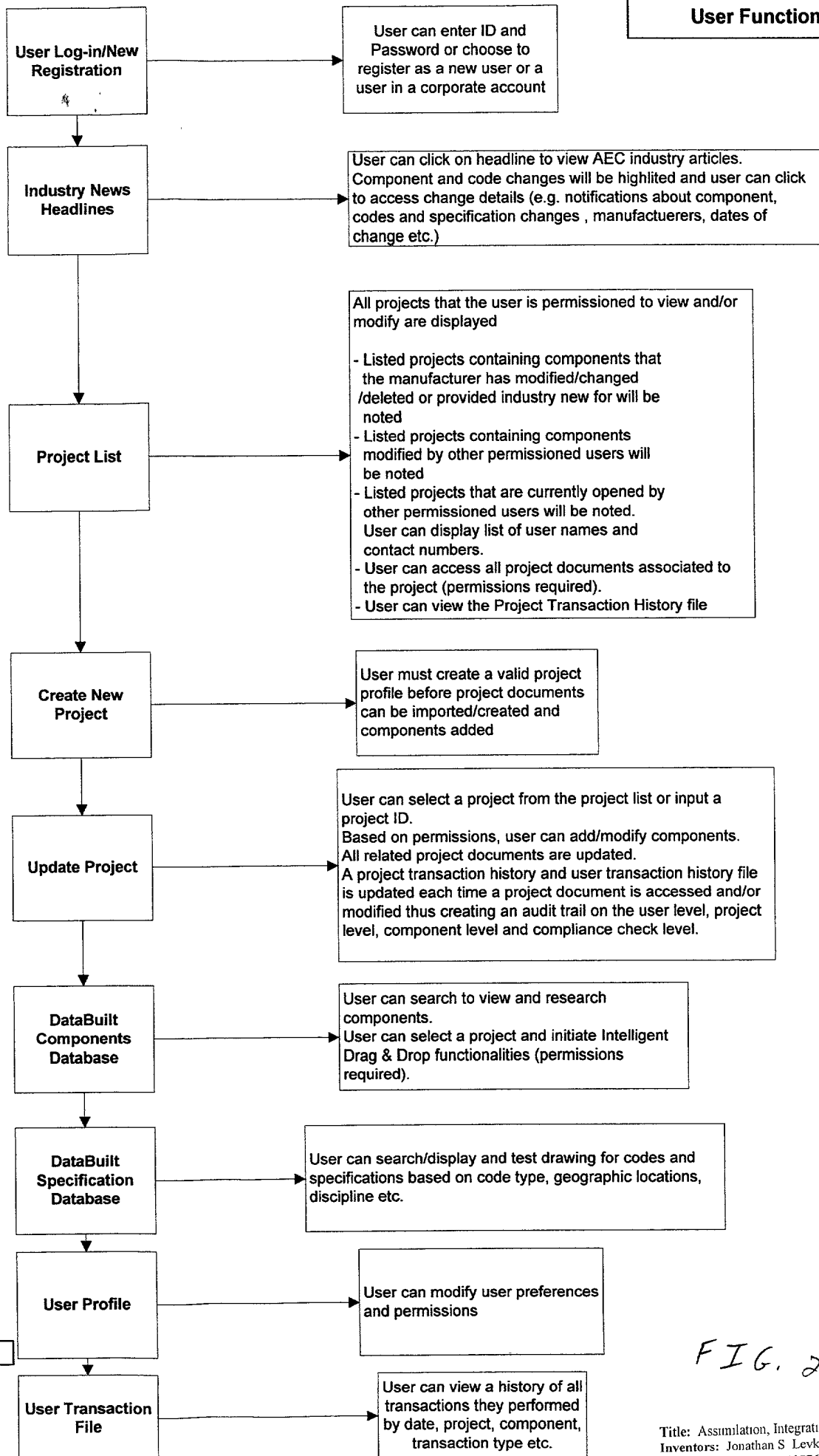
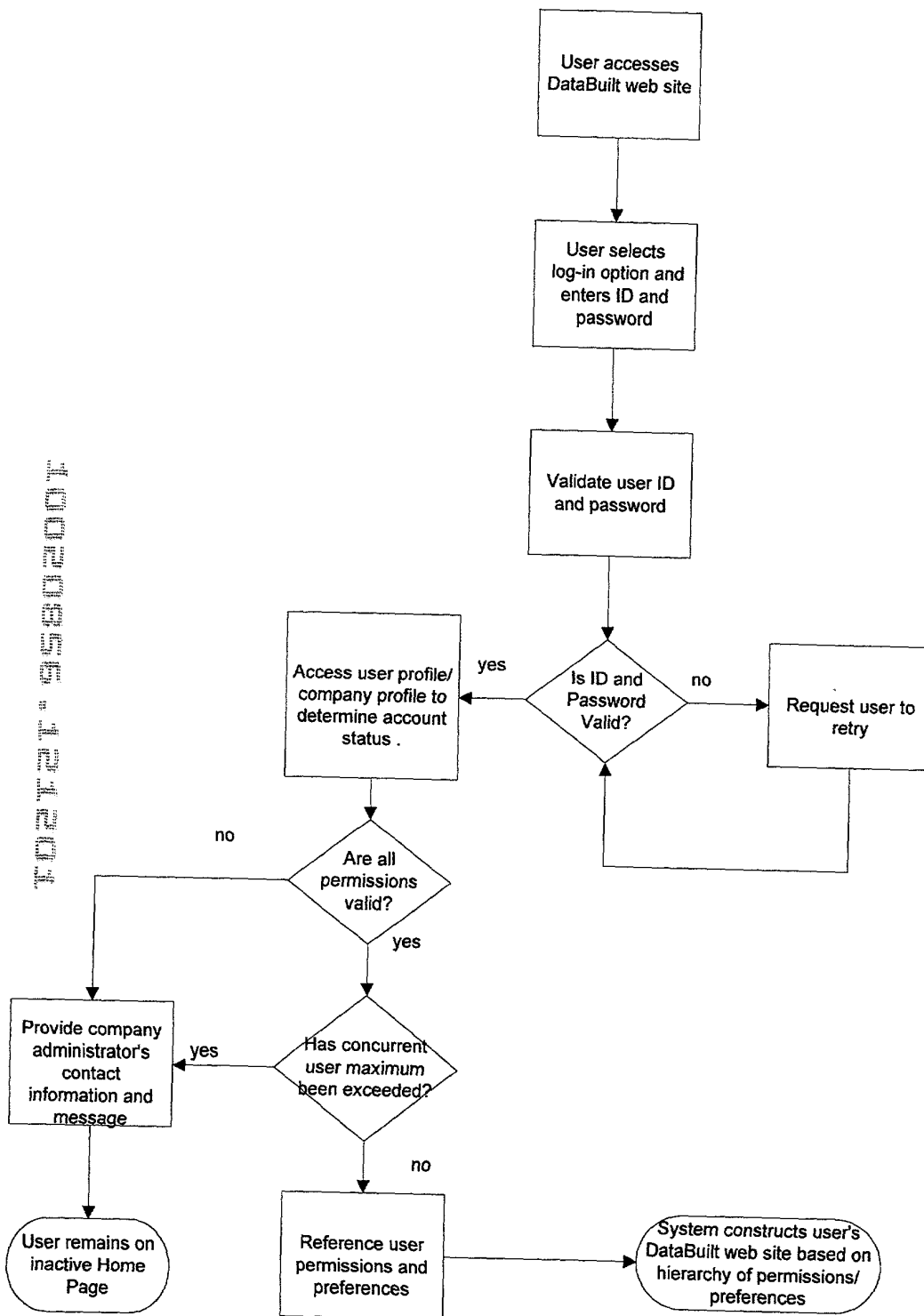


FIG. 20A

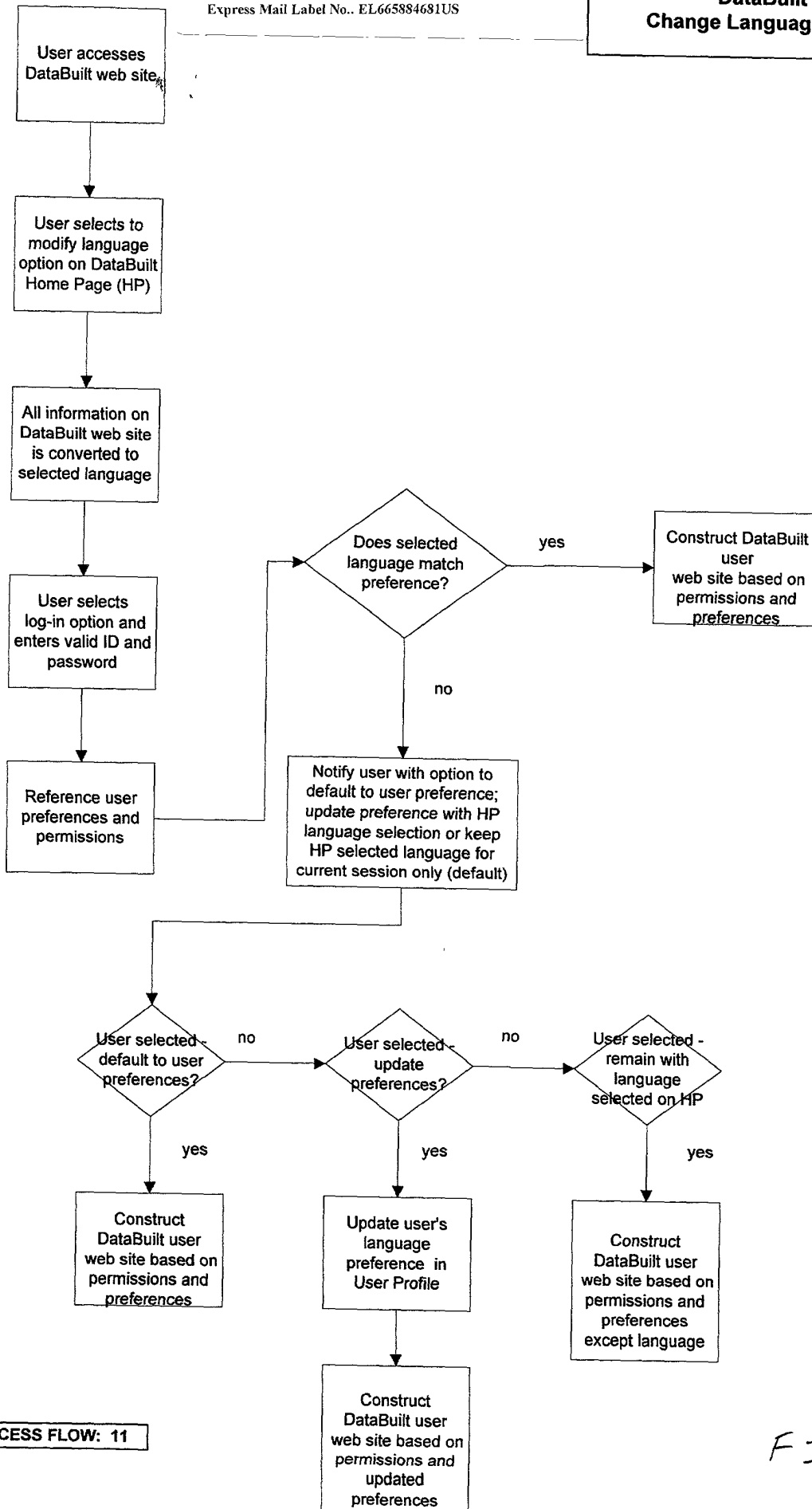
PROCESS FLOW: 9

FIG. 20B

**User Log-in  
DataBuilt Web Site**



**DataBuilt Web Site**  
**Change Language on Home Page**



PROCESS FLOW: 11

FIG. 200

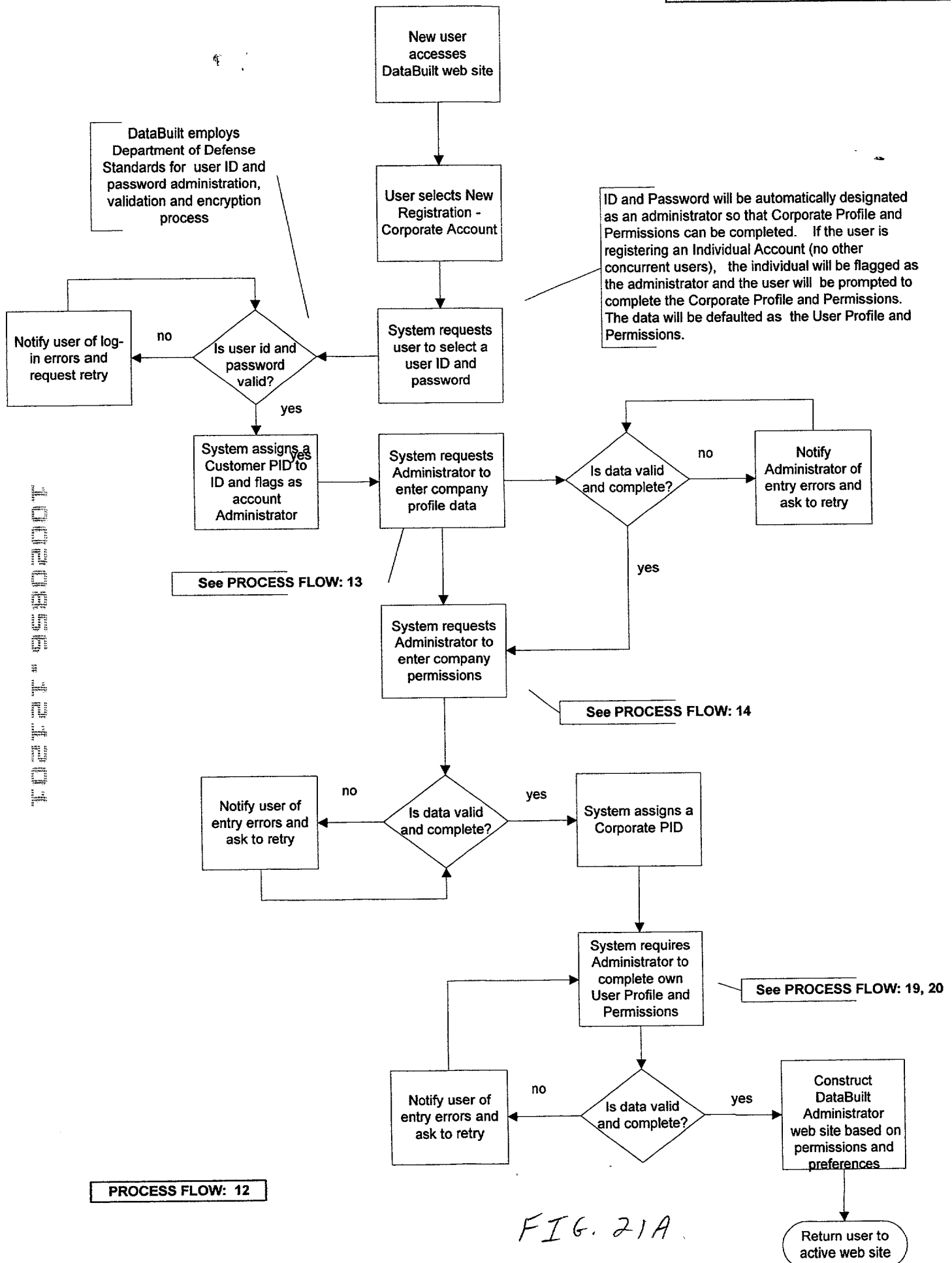
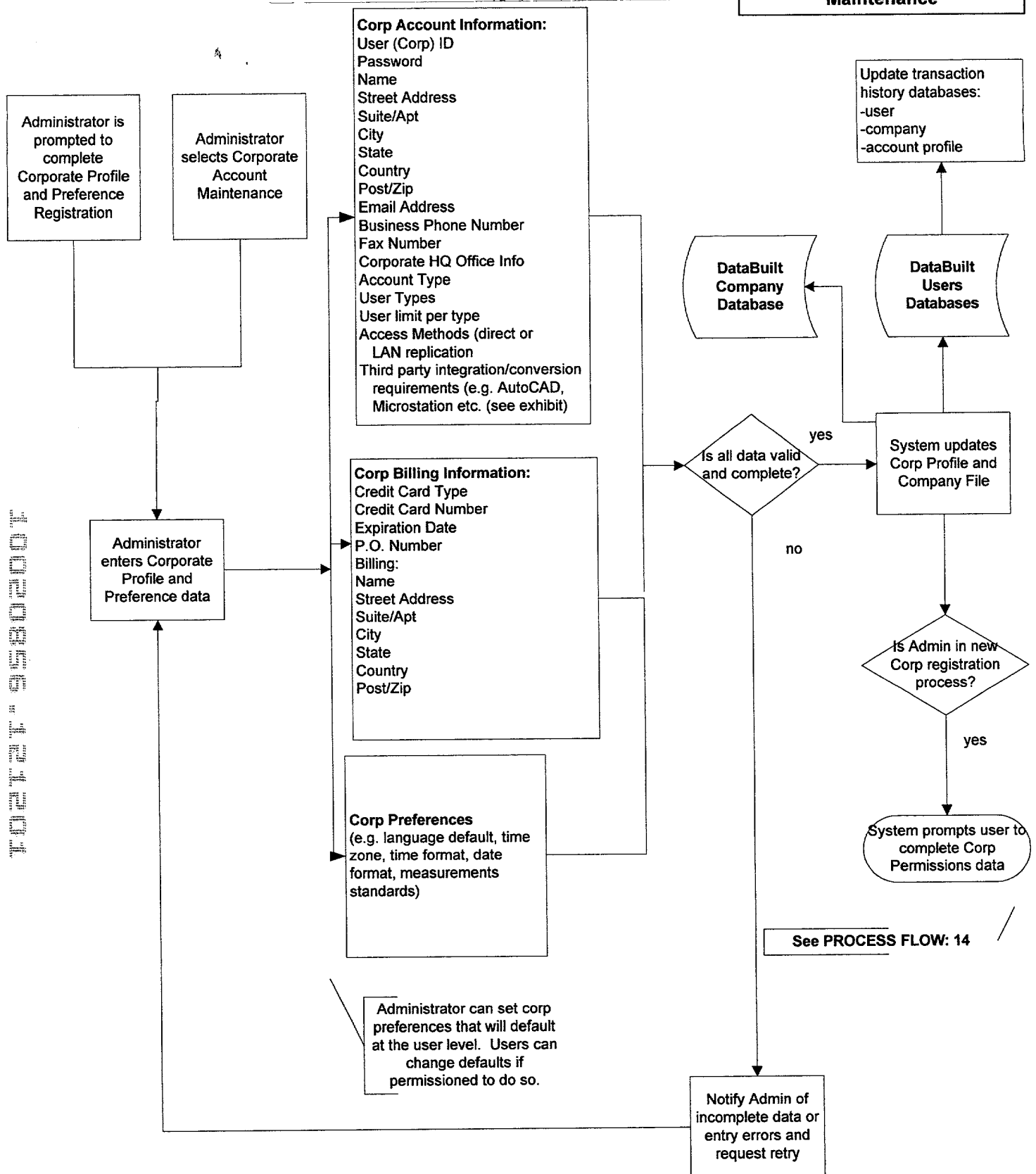
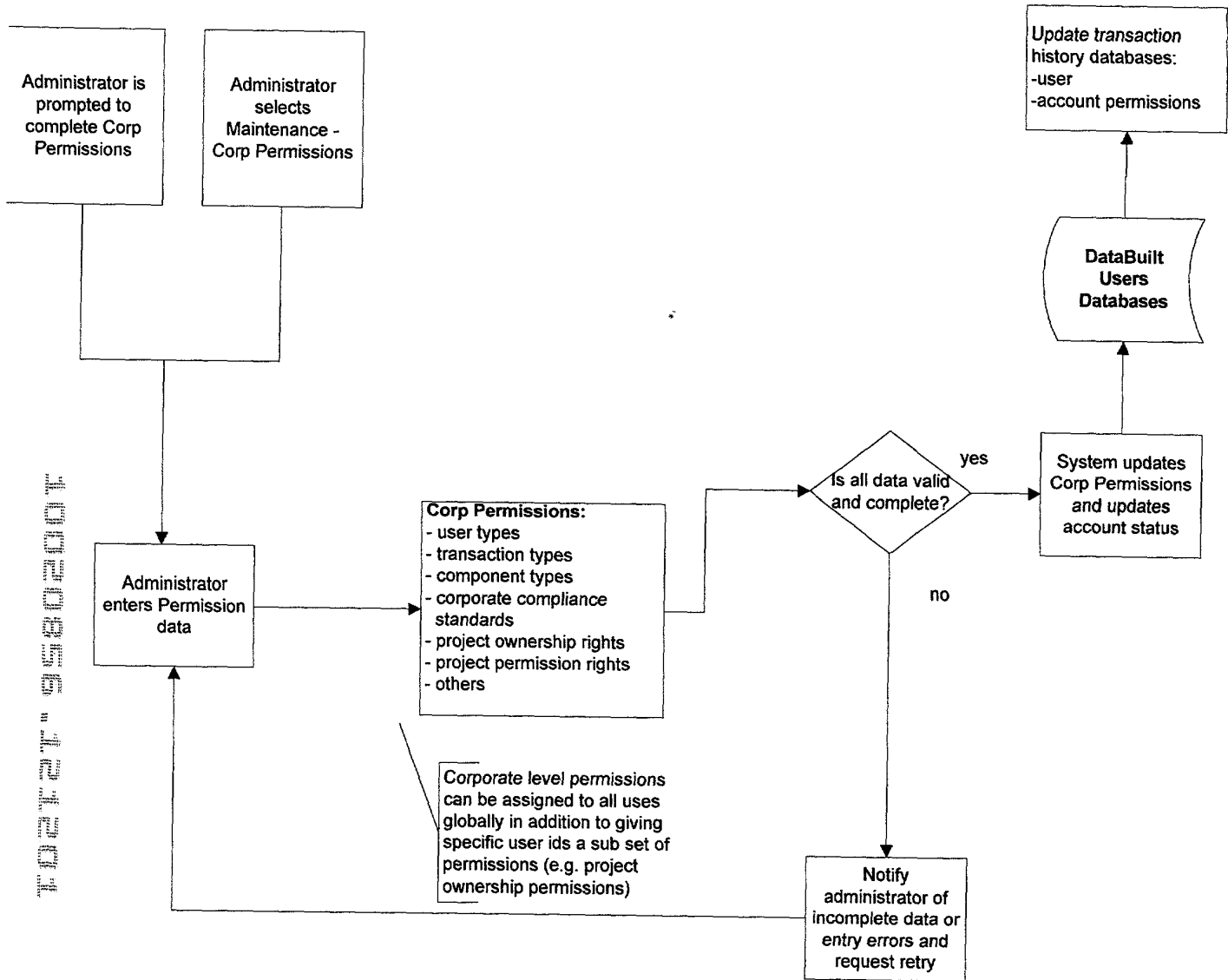


FIG. 21A

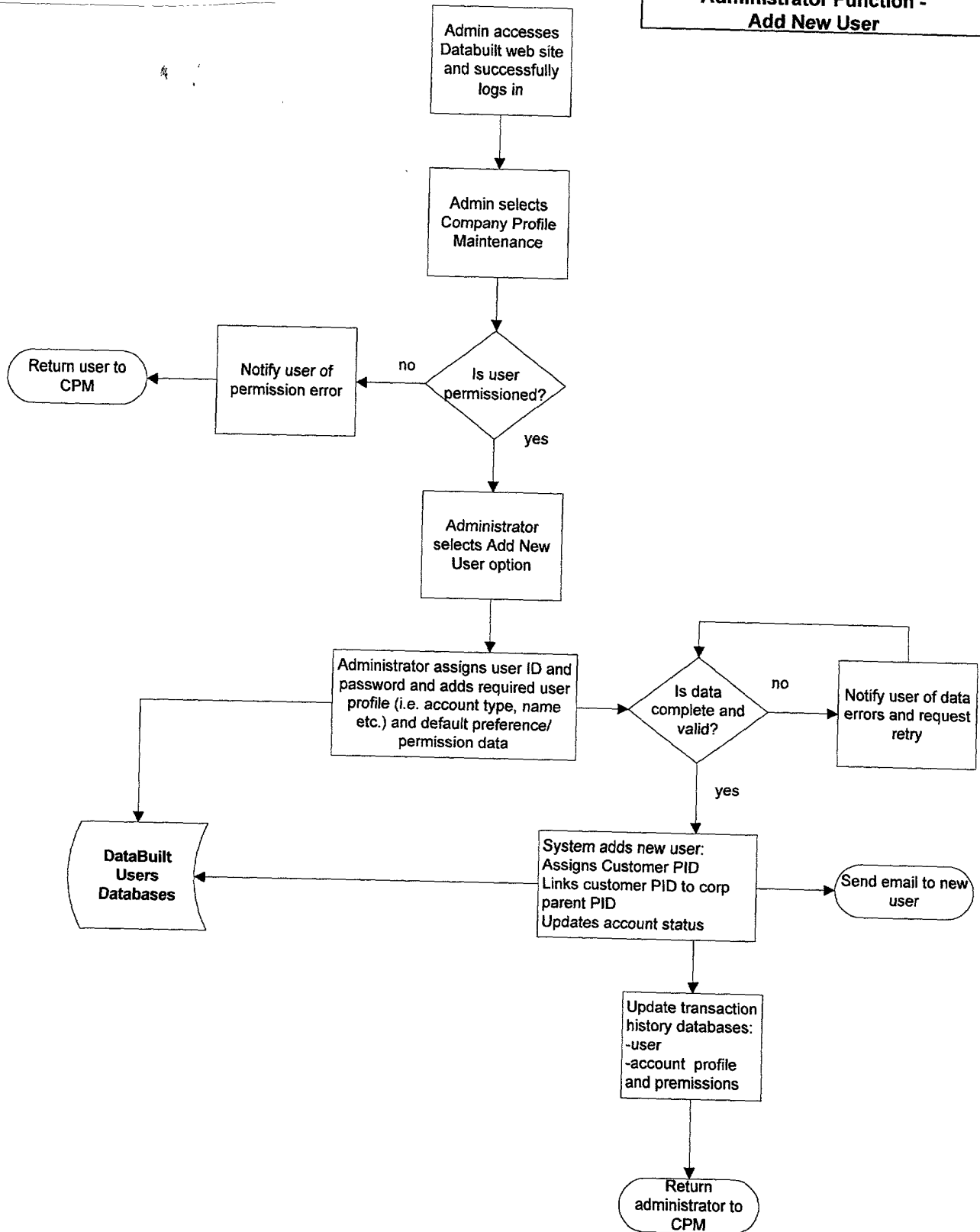
**Corporate Profile -  
 Registration and Account  
 Maintenance**



**Corporate Permissions -  
Registration and Account  
Maintenance**

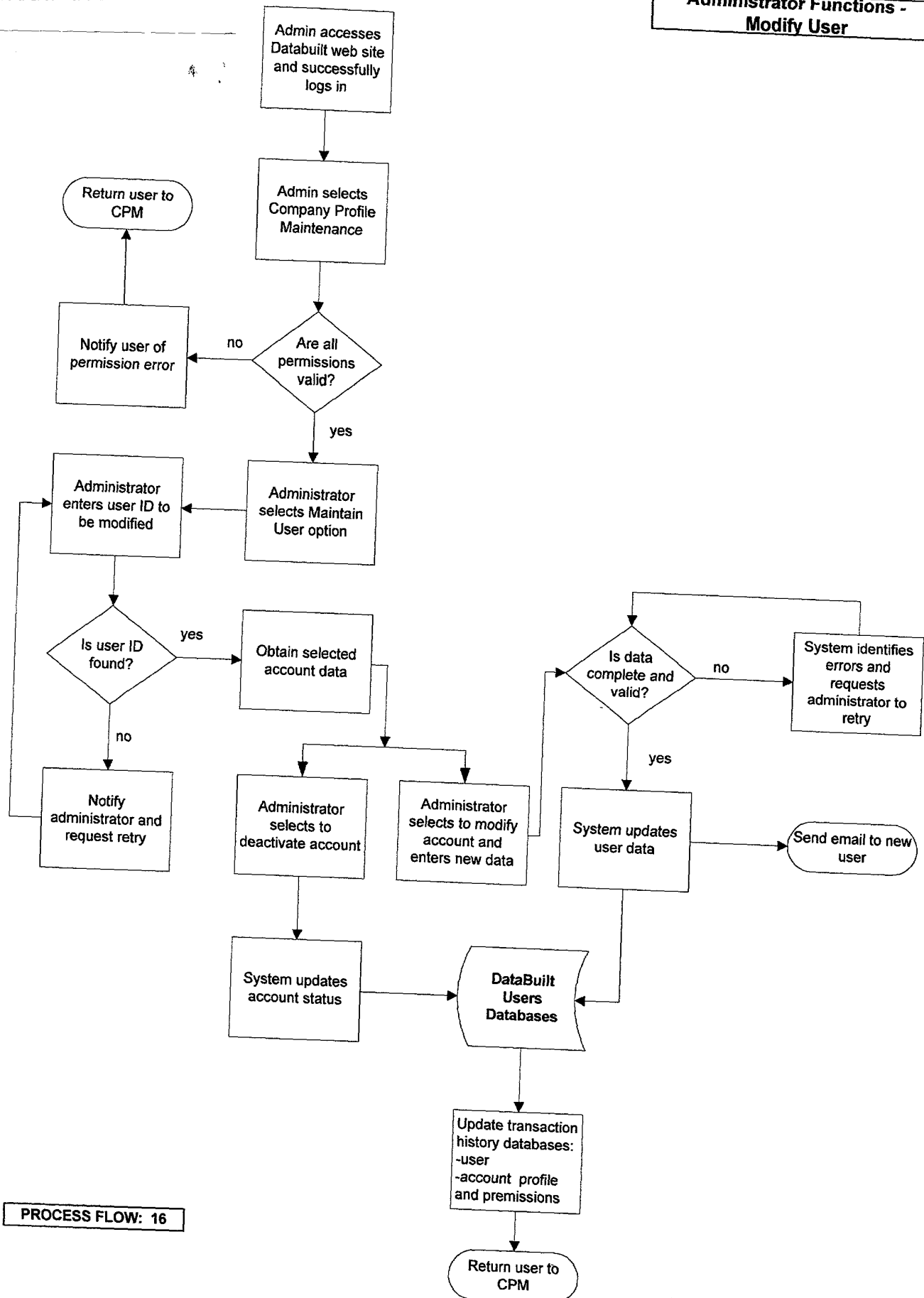


**Administrator Function -  
Add New User**



**Administrator Functions -  
 Modify User**

FIG. 21E

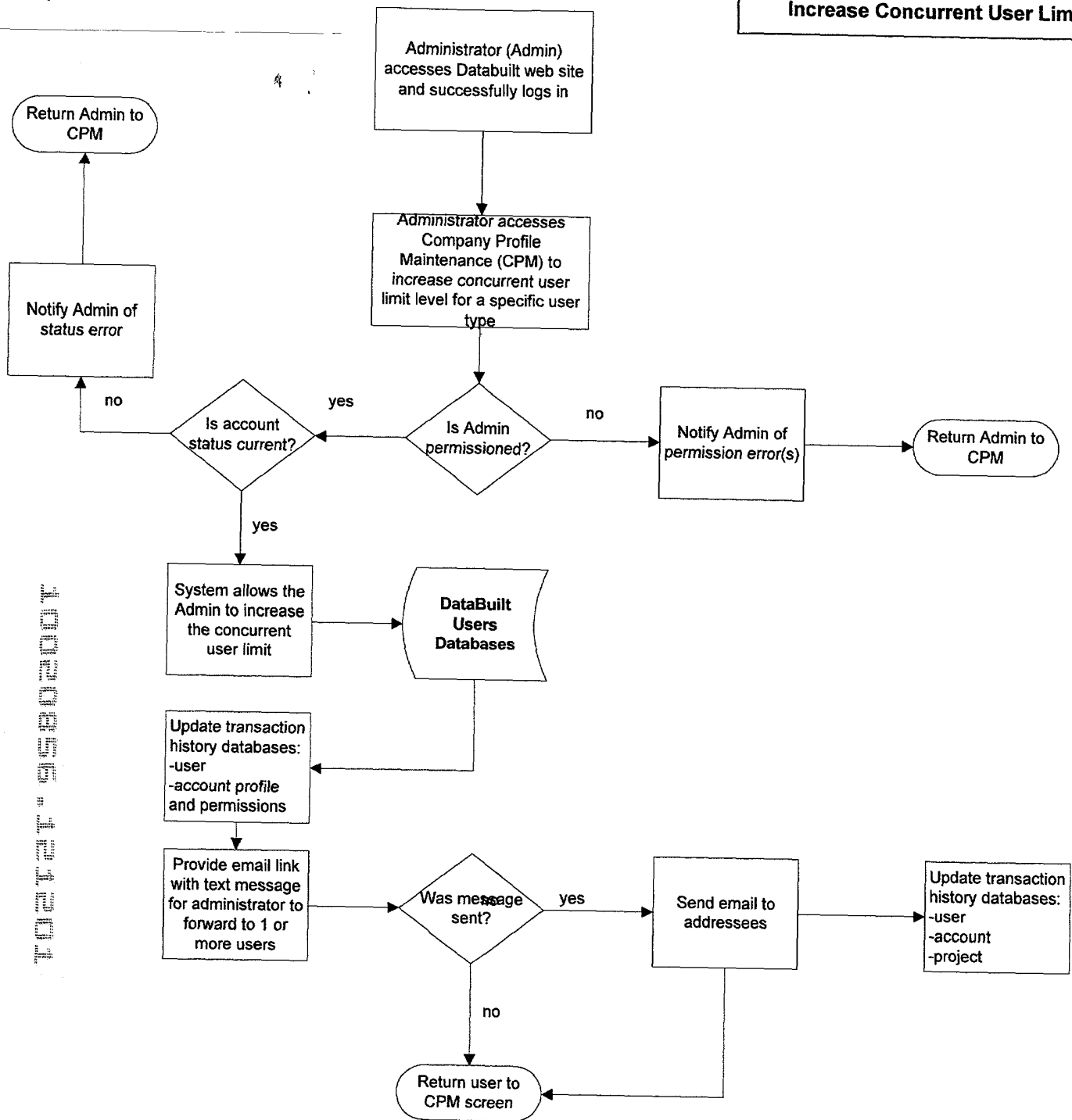


**PROCESS FLOW: 16**

FIG. 21E



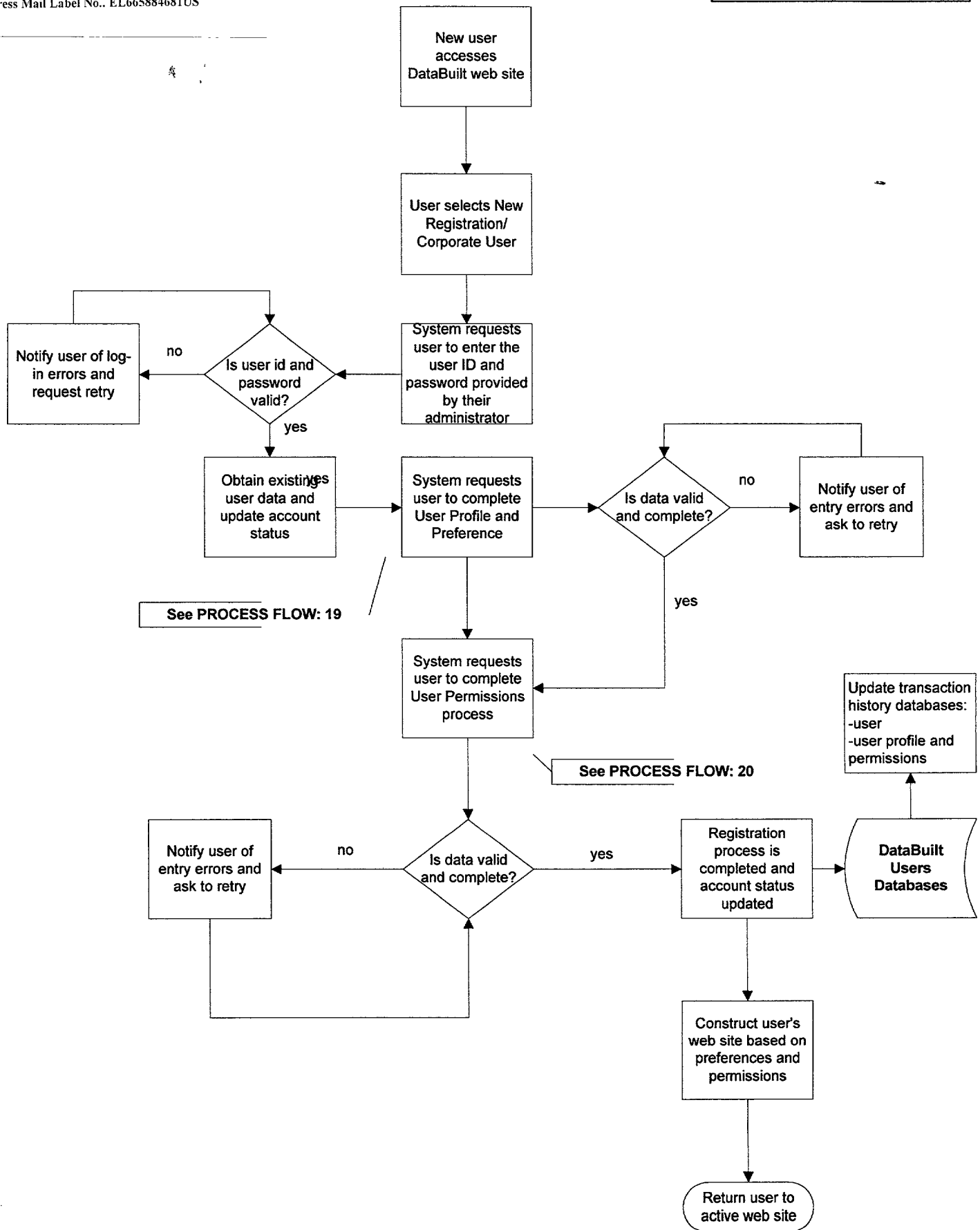
**Administrator Function -  
 Increase Concurrent User Limit**



PROCESS FLOW: 17

FIG. 21F

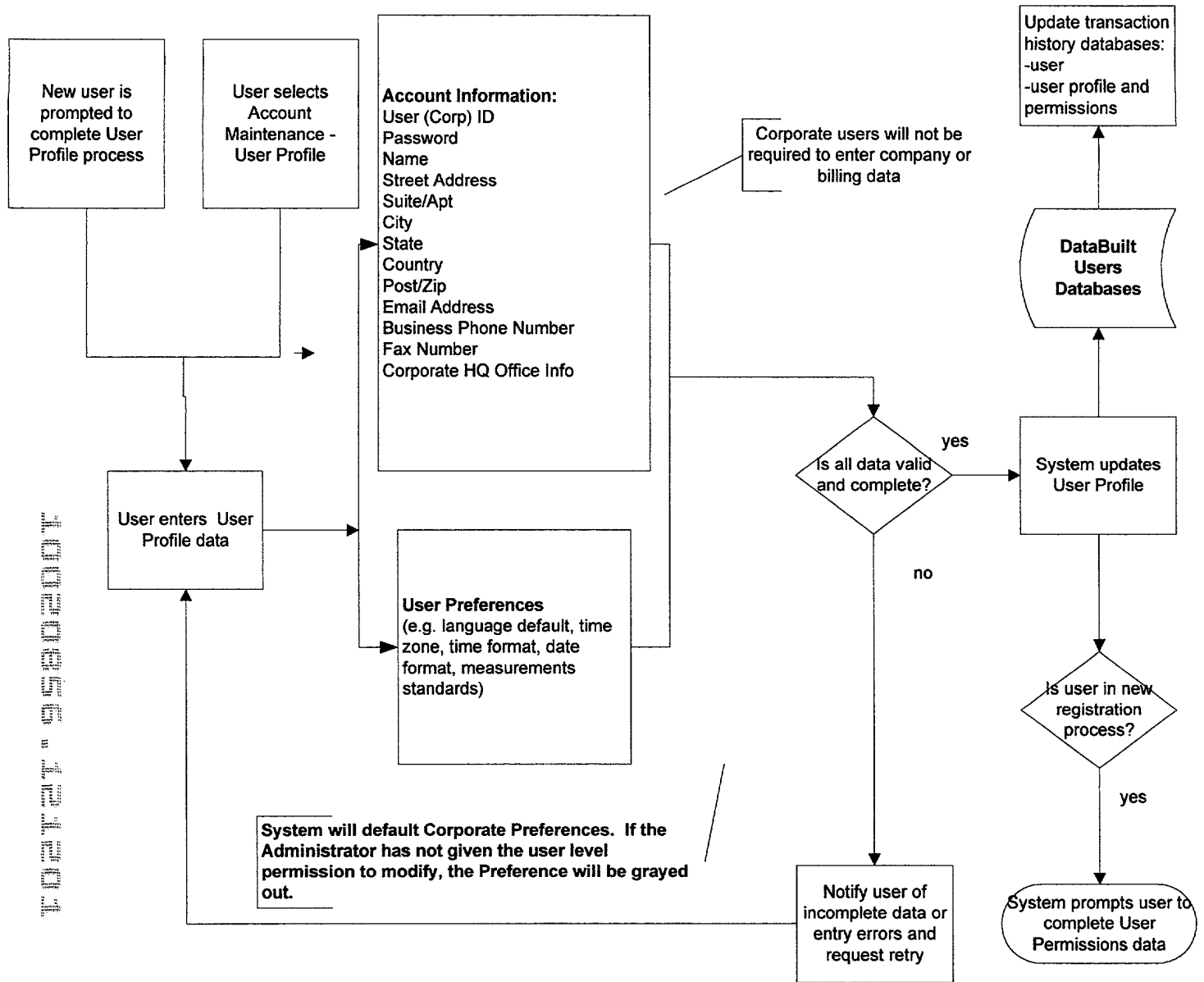
**New User Registration**



PROCESS FLOW: 18

FIG. 21G

**User Profile  
 New Registration and Account Maintenance**

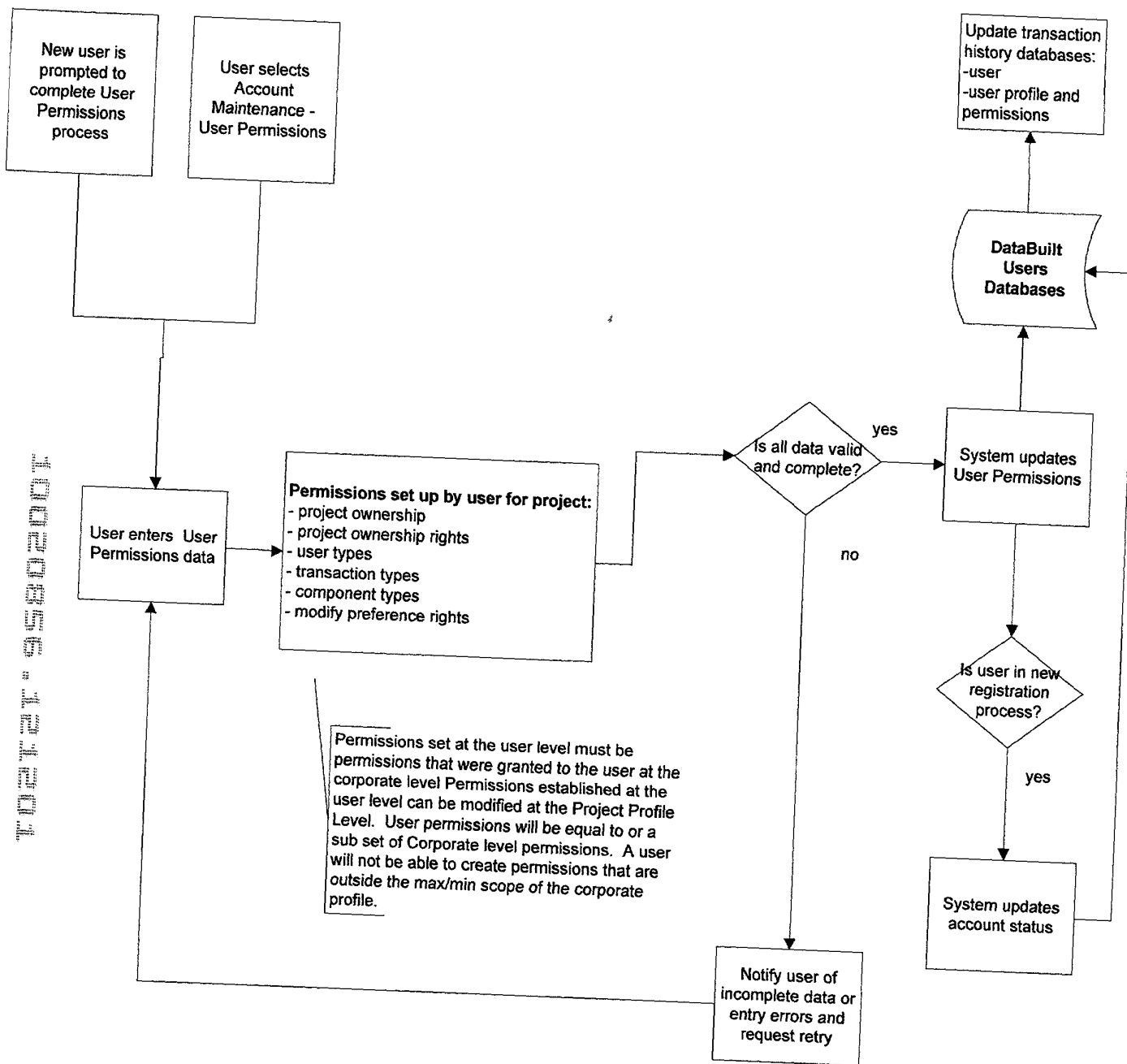


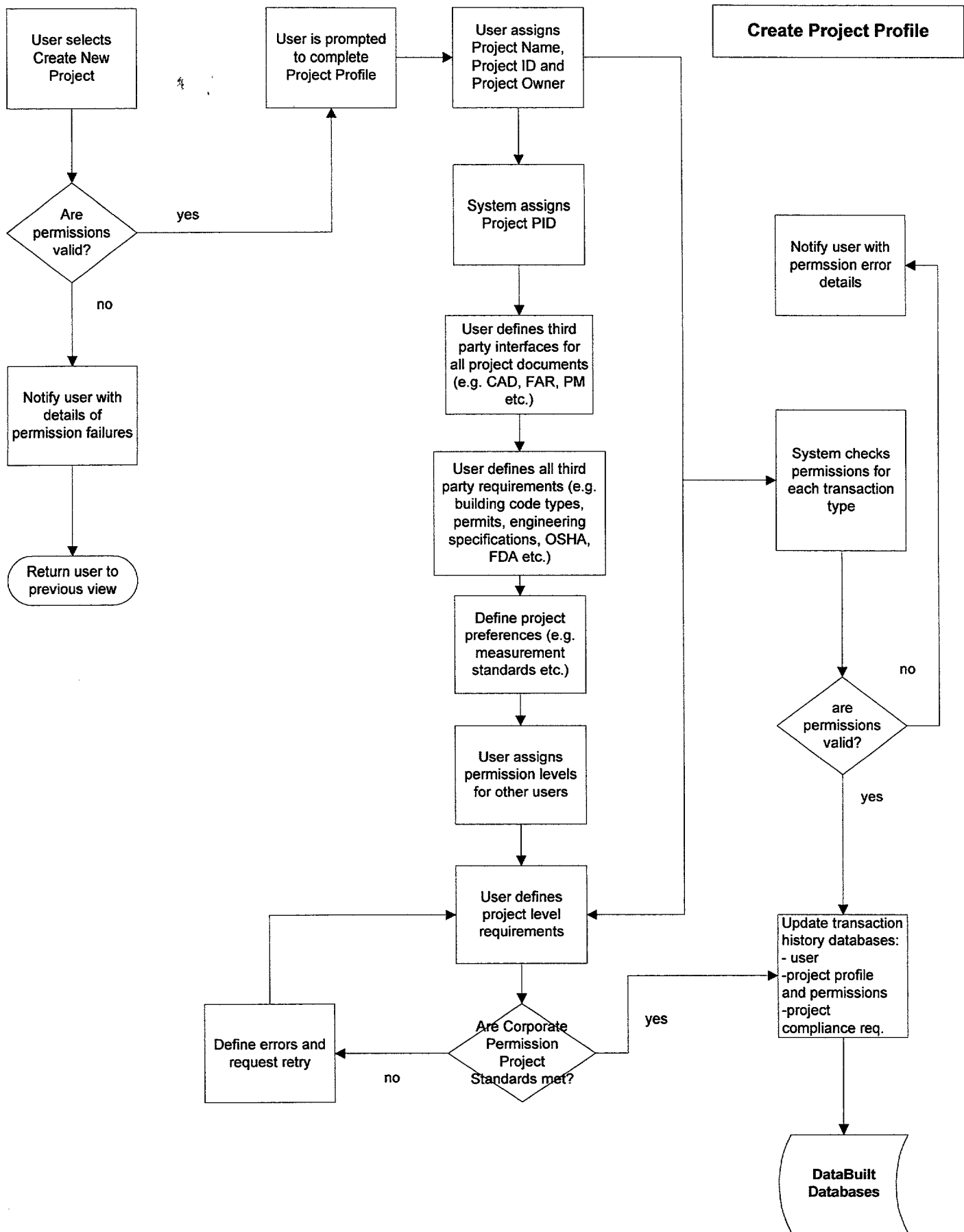
See PROCESS FLOW: 20

PROCESS FLOW: 19

FIG. 21H

**User Permissions  
 Registration and Account Maintenance**

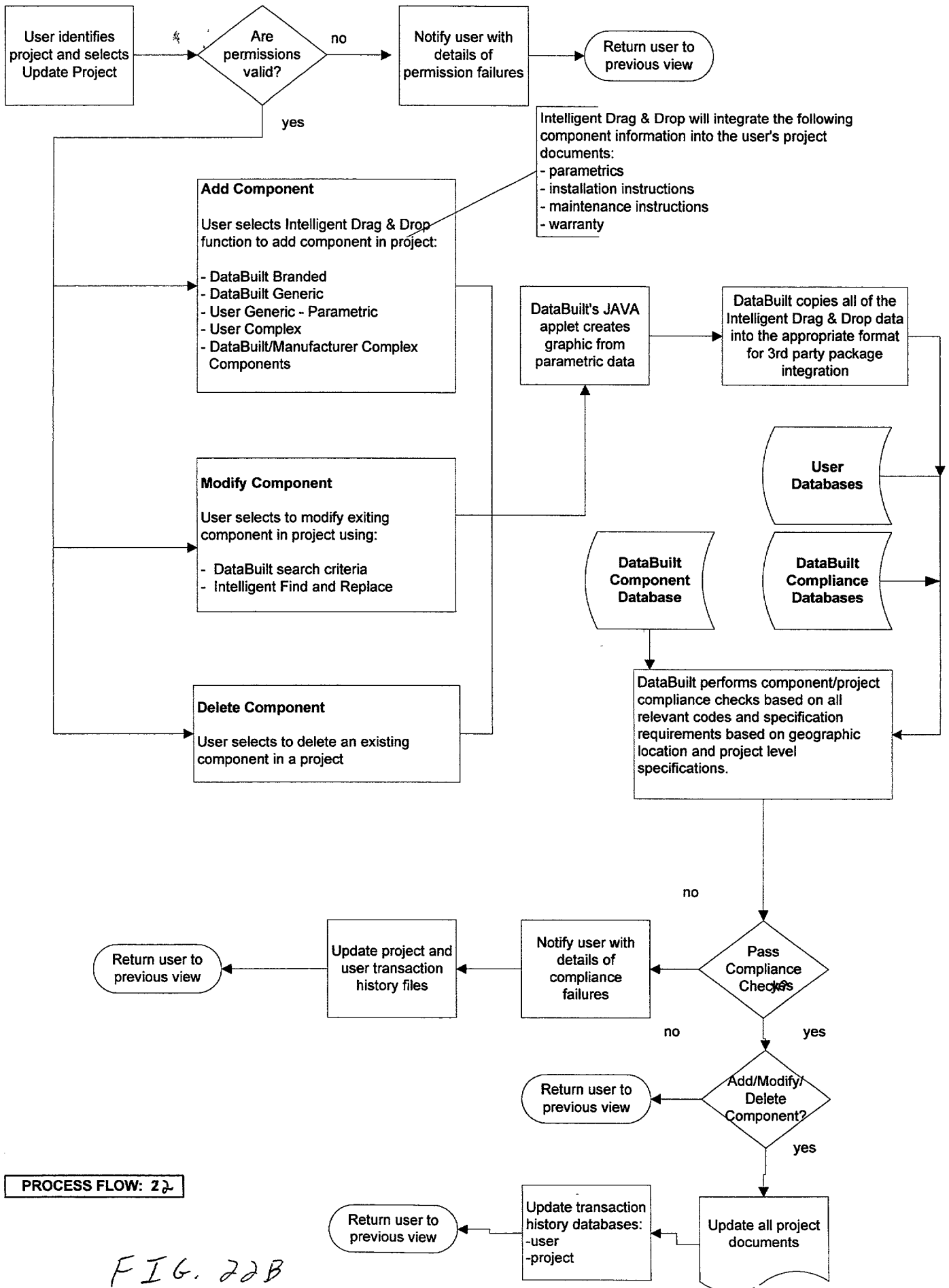




PROCESS FLOW: 2/

FIG. 22A

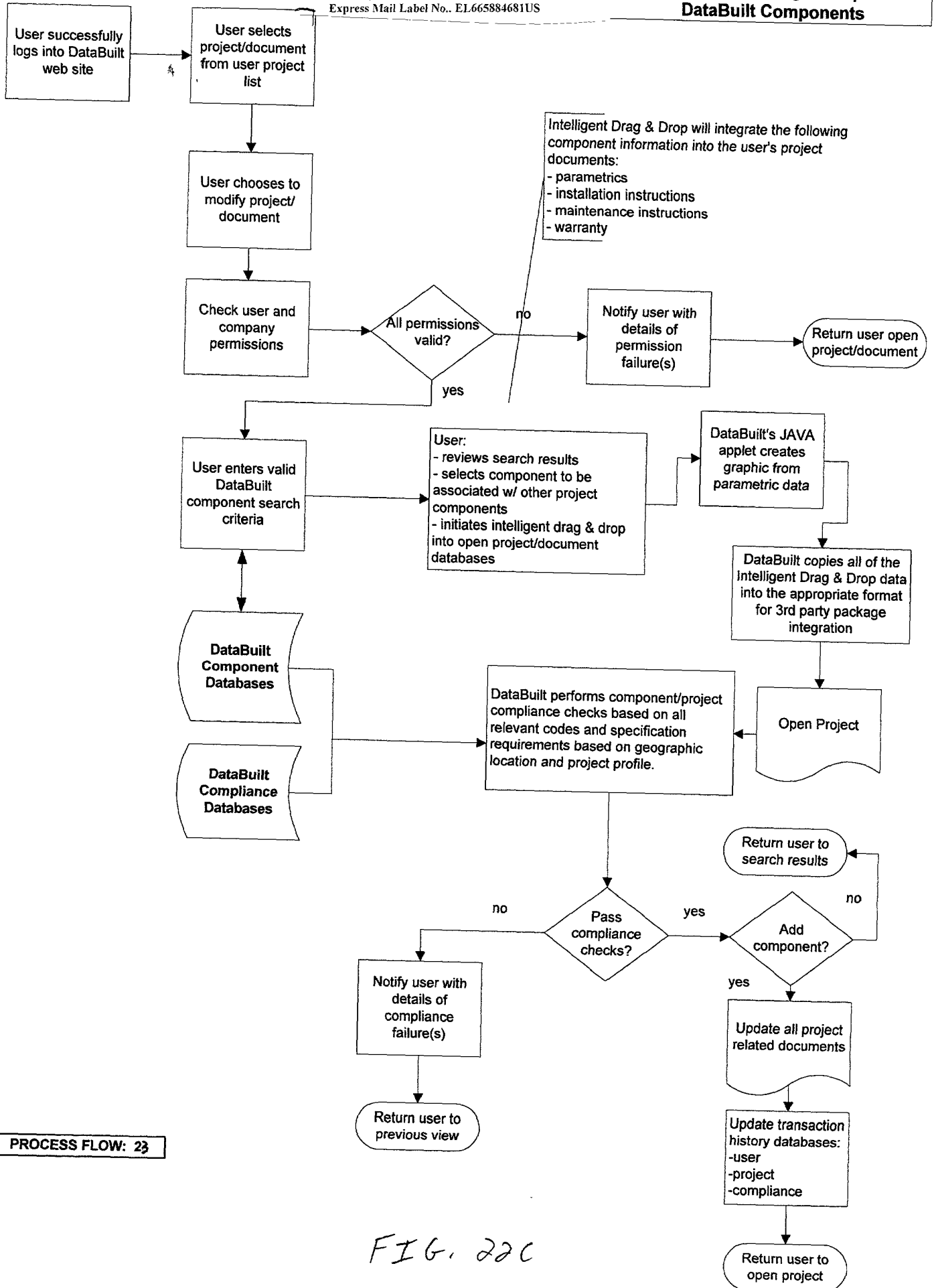
**Update Project Components**



PROCESS FLOW: 22

FIG. 22B

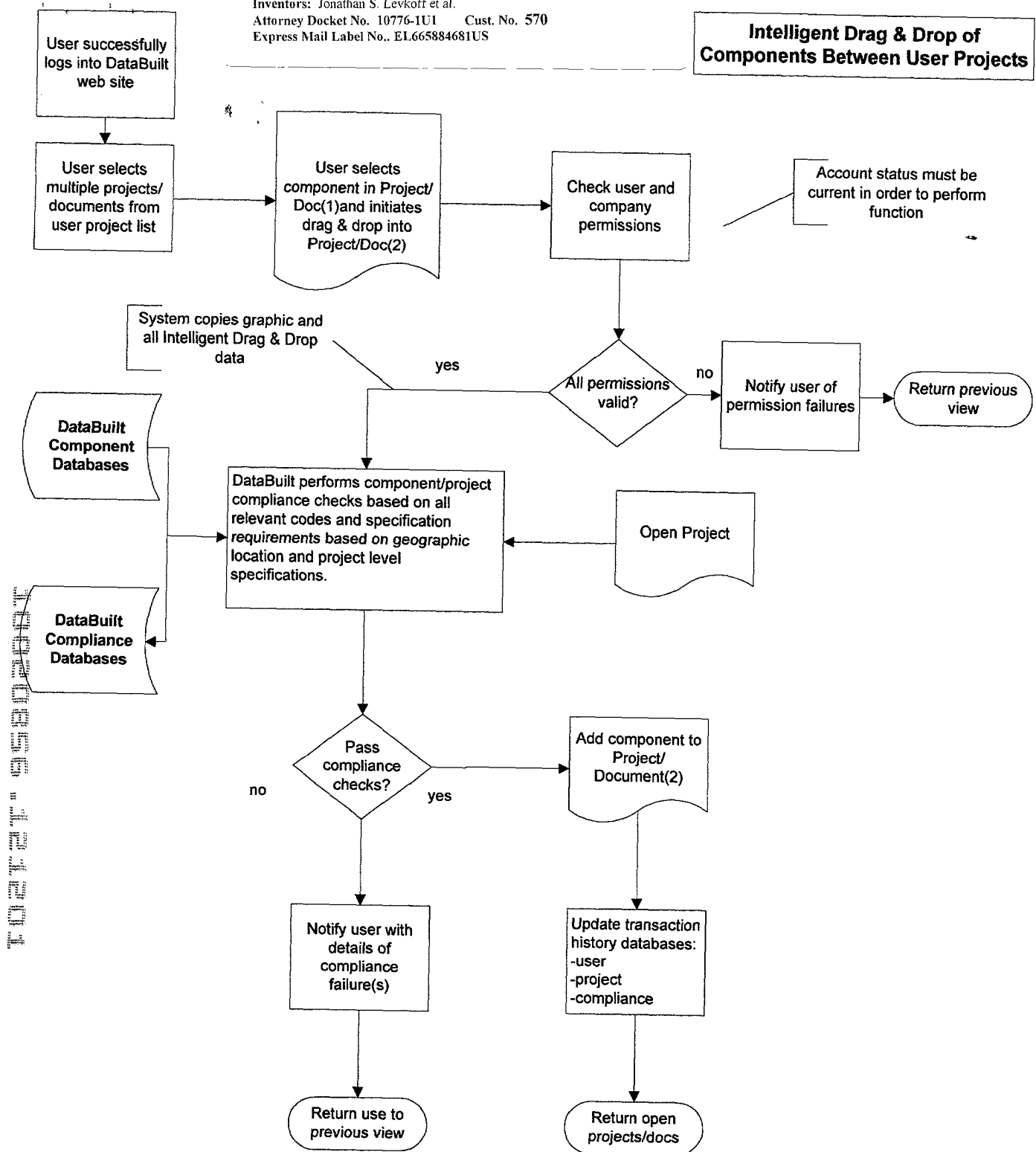
**Intelligent Drag & Drop  
 DataBUILT Components**



PROCESS FLOW: 23

FIG. 22C

**Intelligent Drag & Drop of  
 Components Between User Projects**





**Intelligent Drag & Drop  
 Find and Replace with Alternative Component**

1006001 "950201"

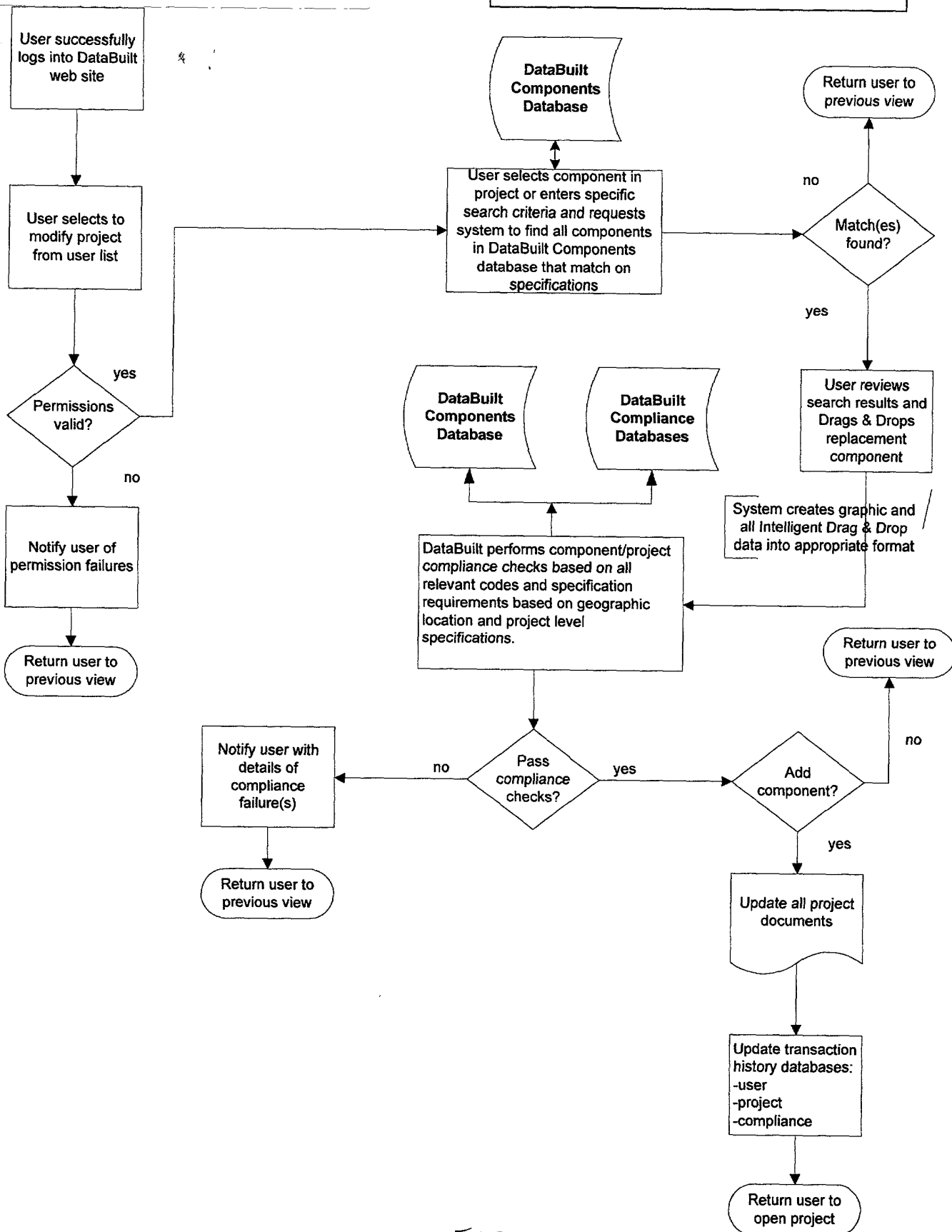
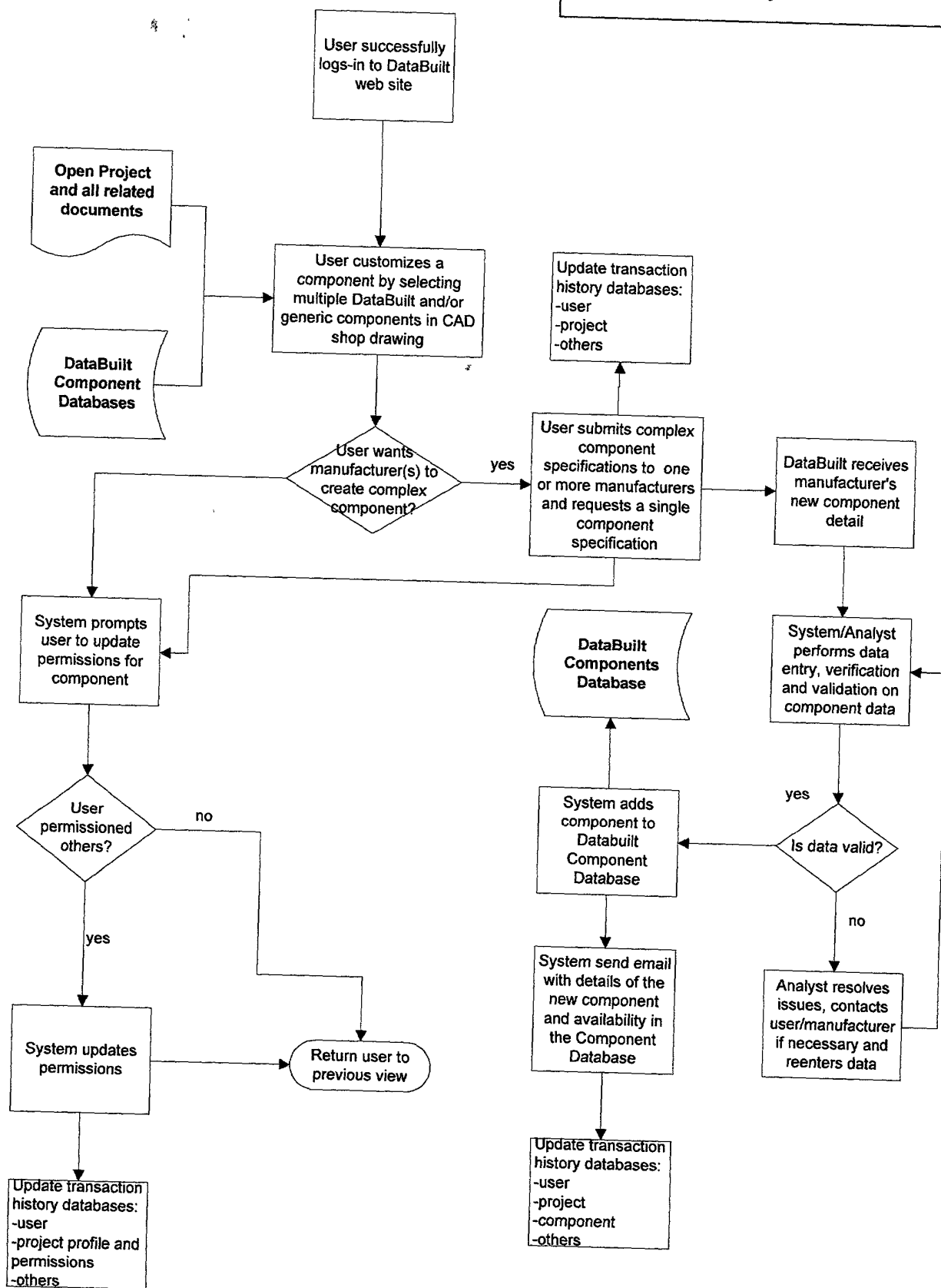
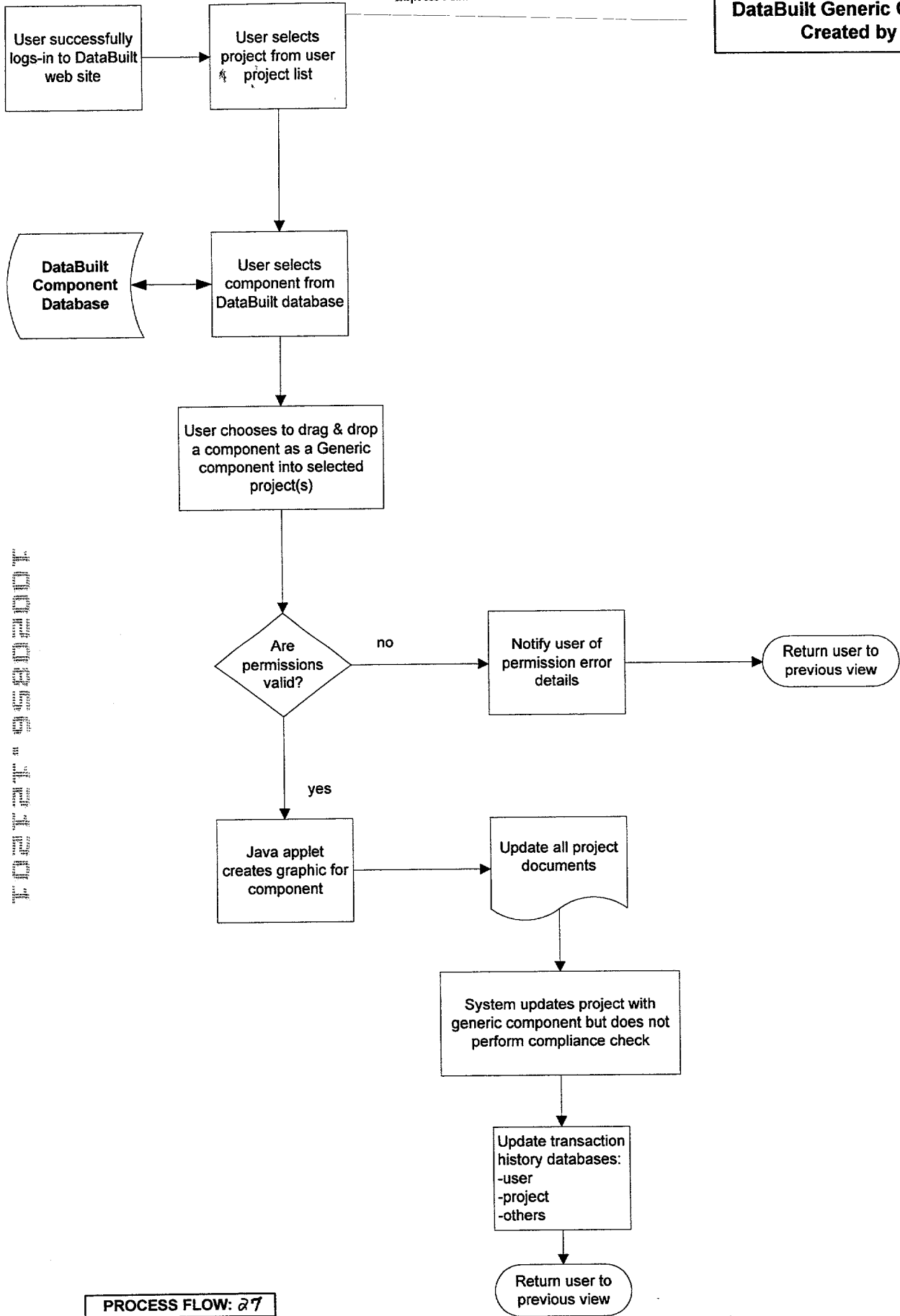


FIG. 22E

**DataBuilt Complex Components  
 Created by User**



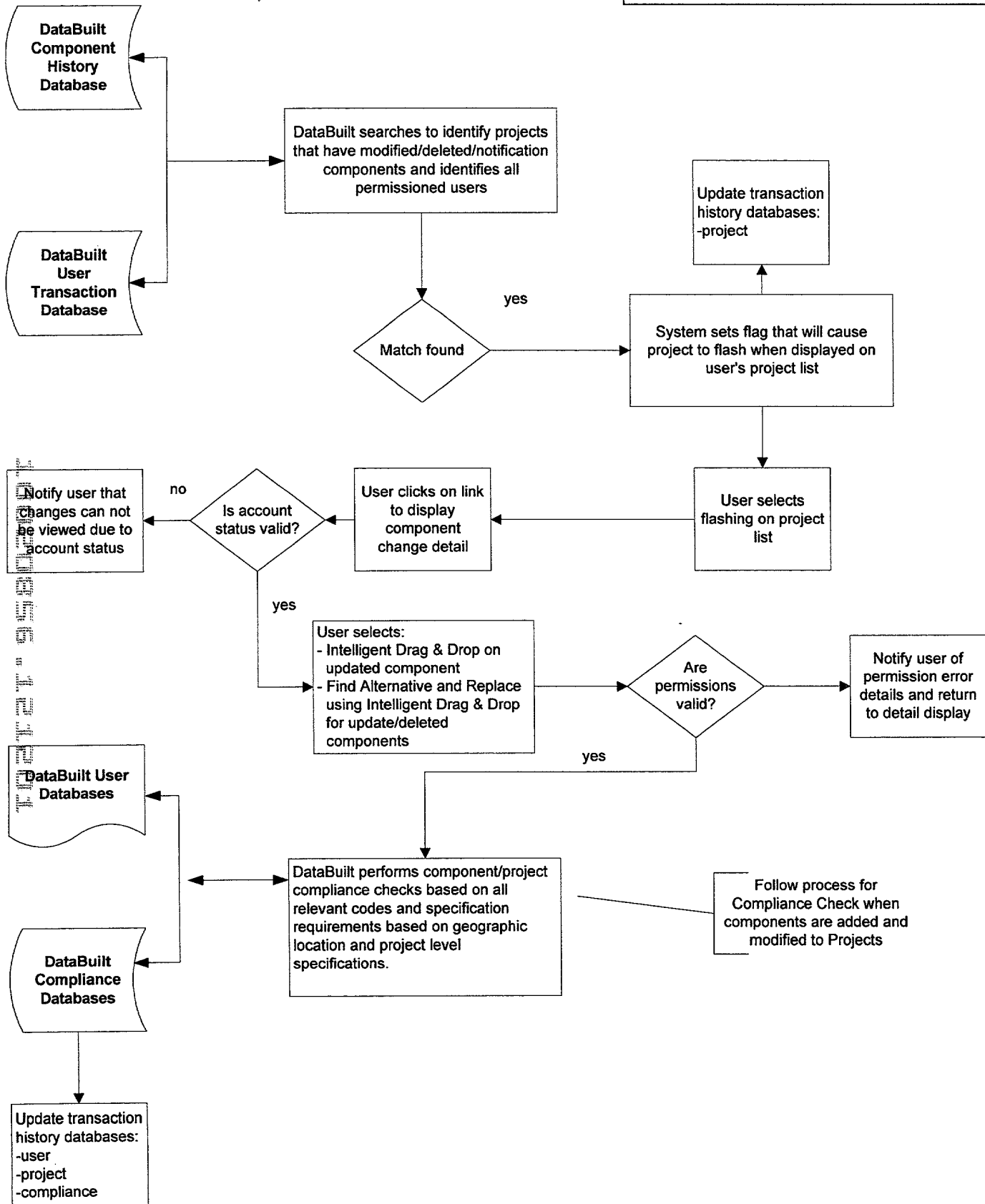
**DataBuilt Generic Components  
Created by User**



PROCESS FLOW: 27

FIG. 23B

# **DataBuilt Component Changes Project Alert on User's Project List**



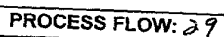


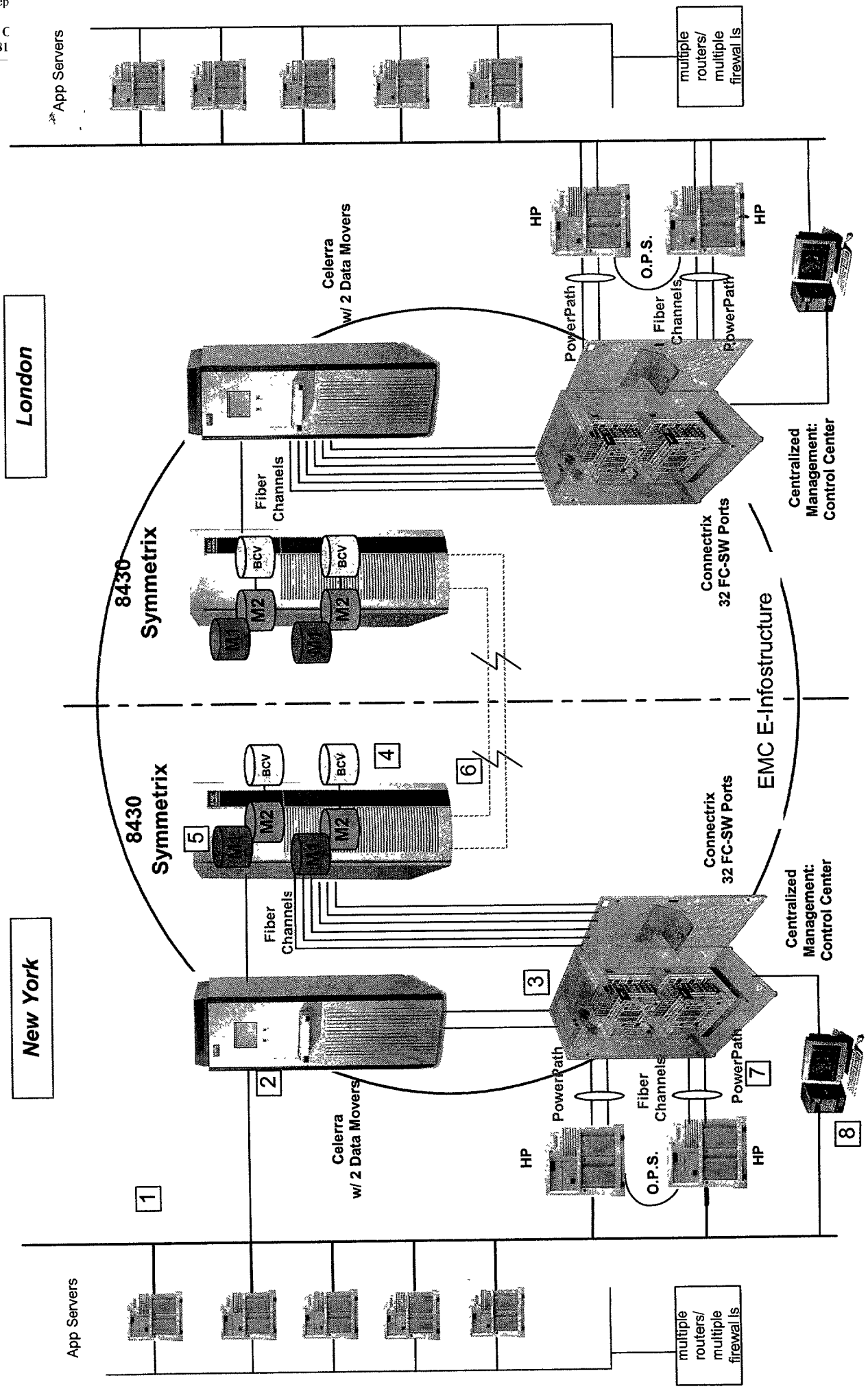
FIG. 24B

1. Boot WebServers from Symmetrix
2. NAS for Scalable Rich Media Storage
3. Fiber Channel Switched Fabric
4. BCV's for Oracle
5. Storage for NAS

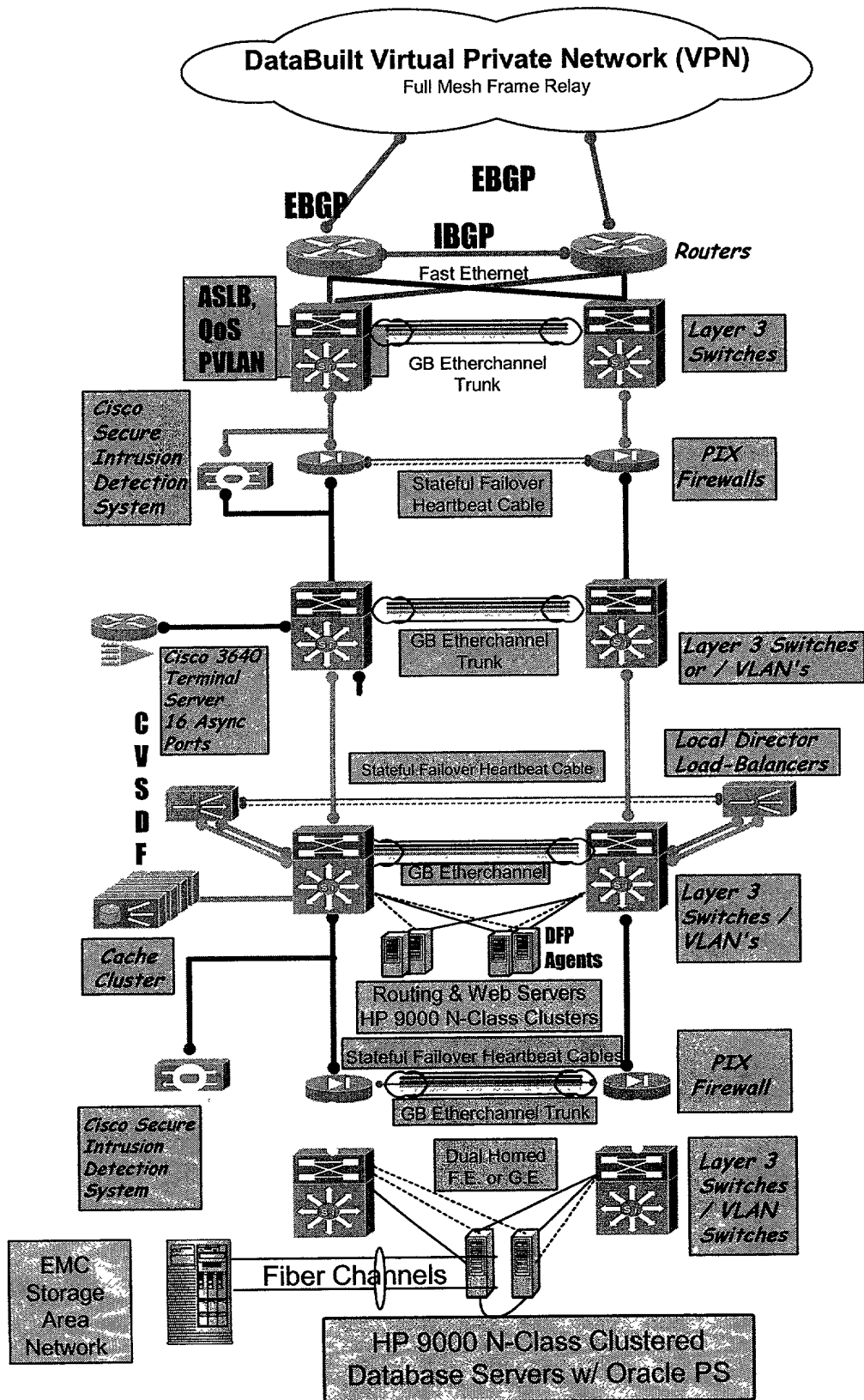
## DataBUILT, Inc. Information Storage Infrastructure

(Note: Database synchronization will be effected through DataBUILT proprietary methods- see LAN diagram)

FIG. 25



# DataBuilt Data Center



# DataBUILT Logical Work Flow Diagram

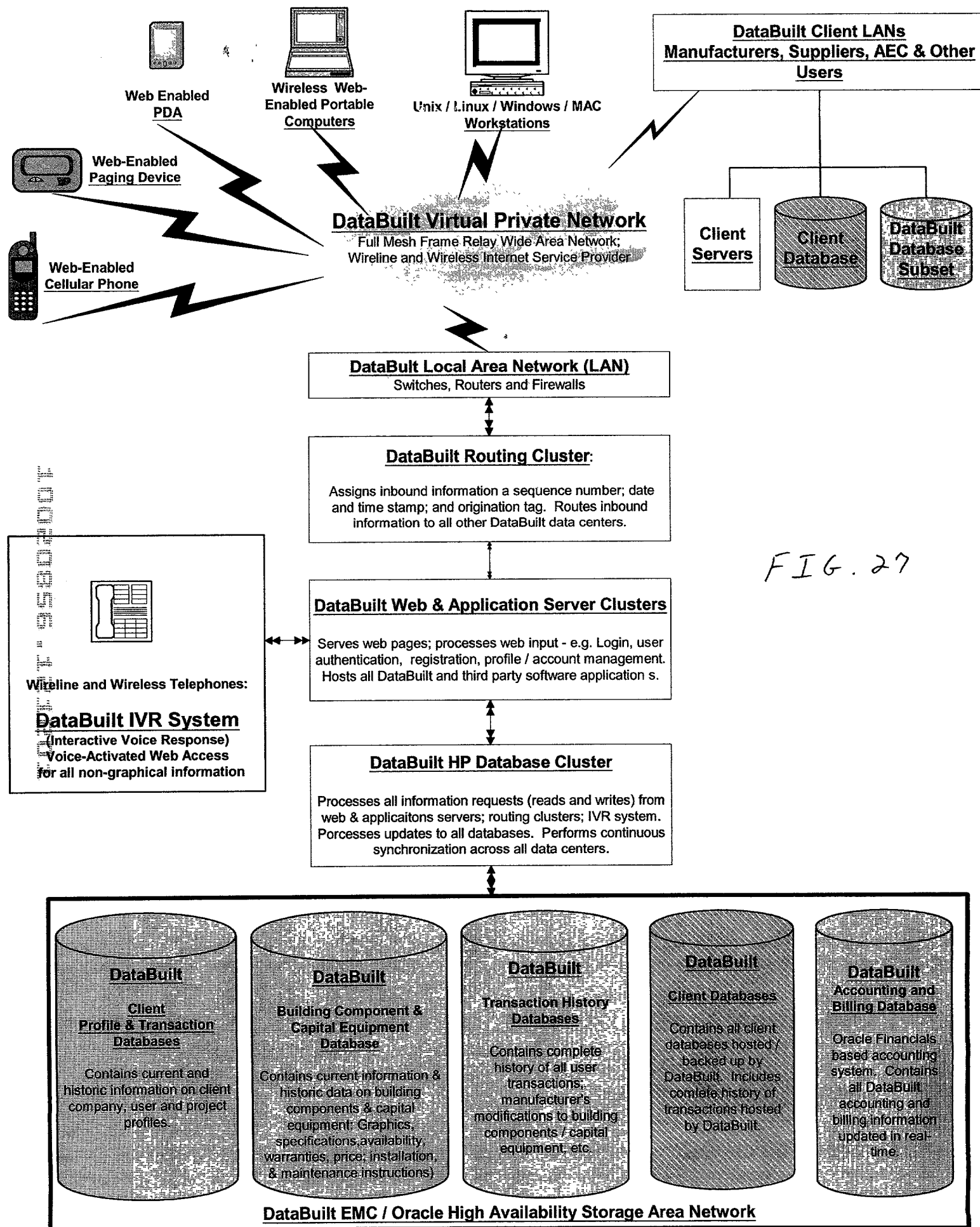


FIG. 27



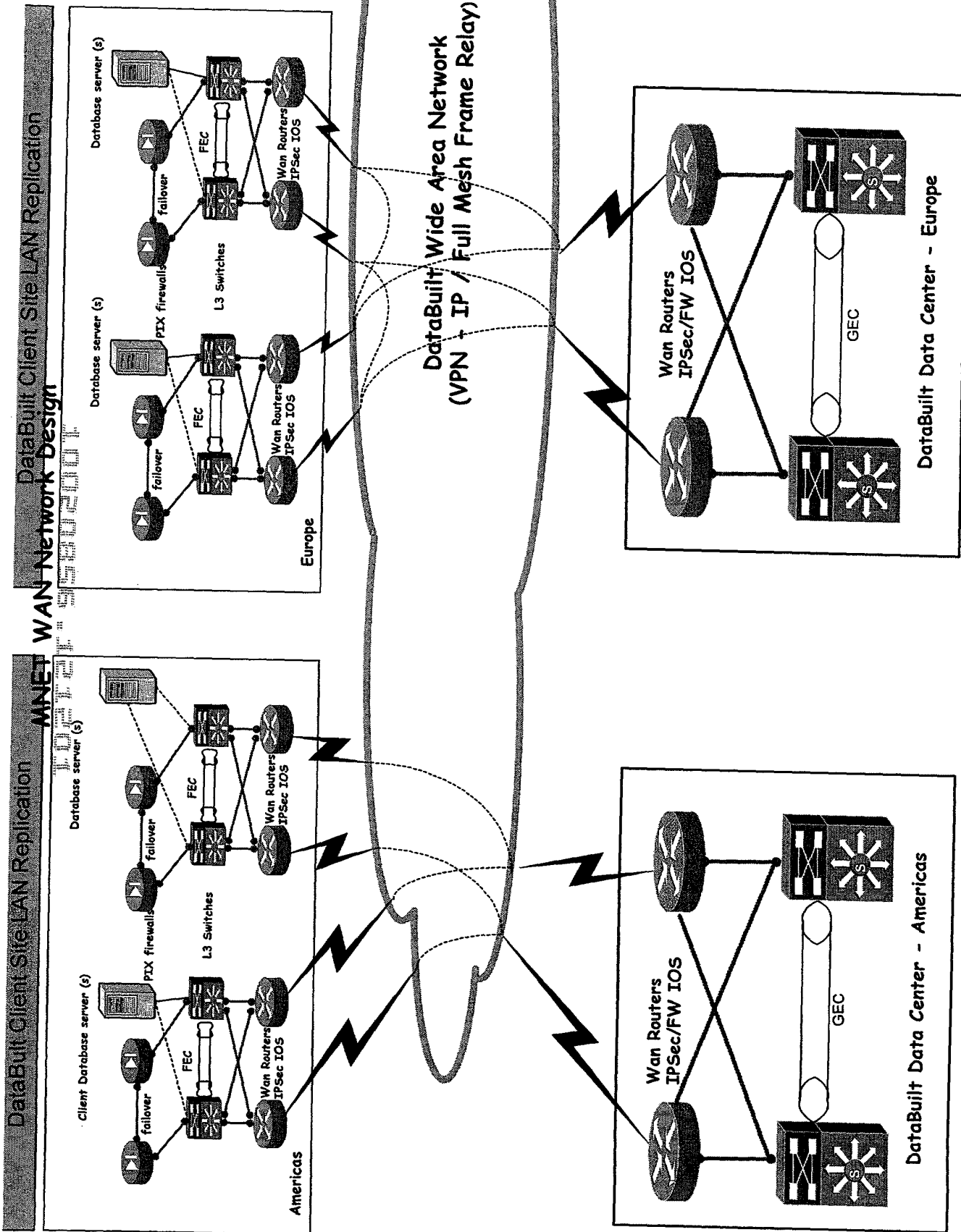


FIG. 28A

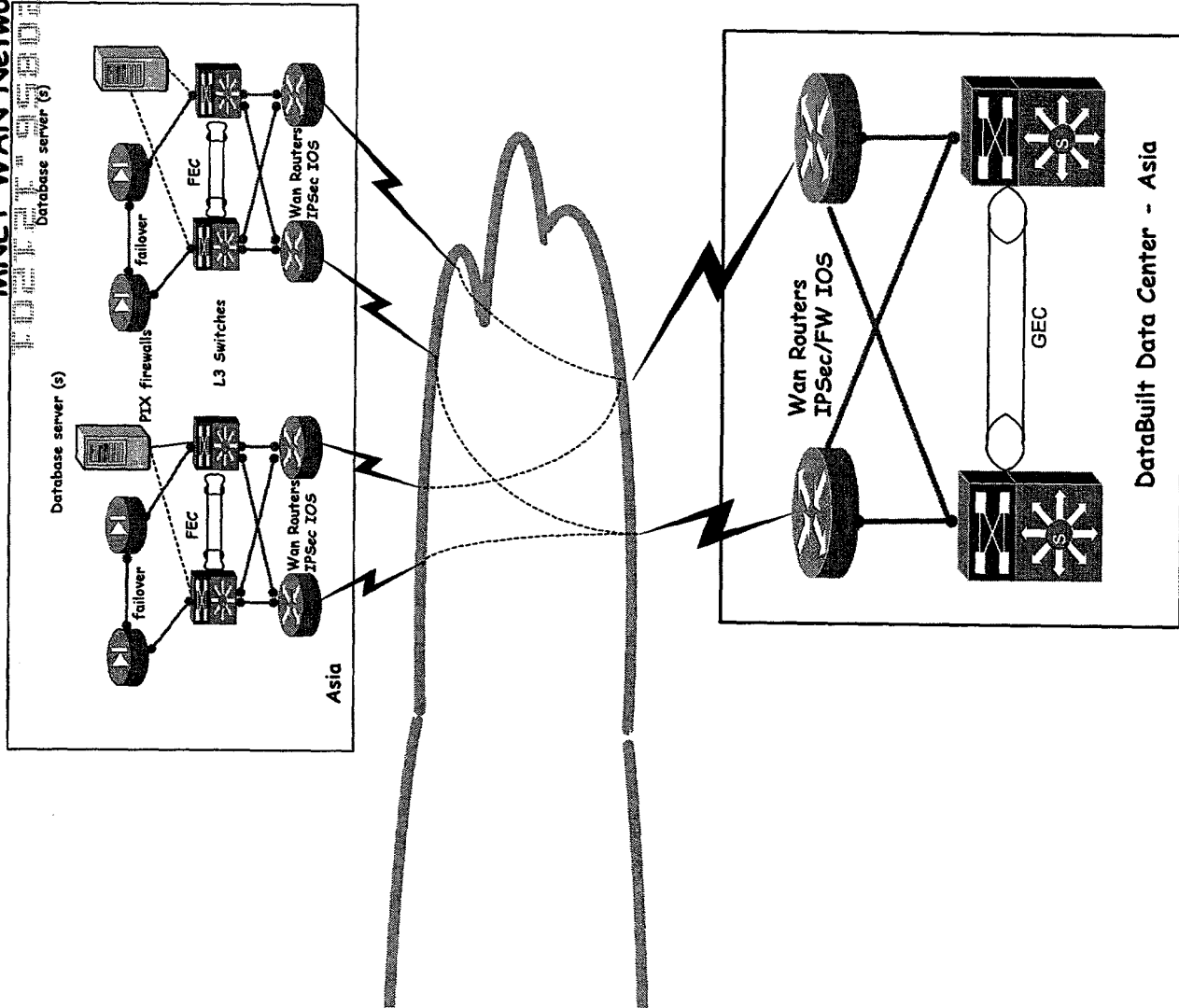


FIG. 28B